Governor's Office of
Storm Recovery

ANDREW M. CUOMO
Governor

November 6, 2018

Re: Negative Declaration for the Environmental Review of Shoreline Stabilization and Road Improvements – Oak Beach, 144-221 Oak Beach Road, Oak Beach, Town of Babylon, Suffolk County, New York

Dear Involved/ Interested Agency:

The Governor's Office of Storm Recovery ("GOSR") serving as lead agency under the National Environmental Policy Act ("NEPA") and State Environmental Quality Review Act ("SEQRA") and related laws for the environmental review of the proposed of Shoreline Stabilization and Road Improvements – Oak Beach (the "Proposed Action") has determined that the Proposed Action will not result in a significant adverse environmental impact and consequently no EIS will be prepared as documented in the attached Negative Declaration. Operating under the auspices of New York State Homes and Community Renewal's Housing Trust Fund Corporation, GOSR is the Responsible Entity for the administration of the CDBG-DR grants to the State of New York. GOSR is conducting an environmental review of the Proposed Action on behalf of the State of New York as the recipient of Community Development Block Grant - Disaster Recovery ("CDBG-DR") funds from the U.S. Department of Housing and Urban Development under 42 U.S.C. § 5304(g).

The Proposed Action will strengthen the shoreline at the most vulnerable points along Oak Beach's shoreline and raise Oak Beach Road to reduce flooding to residences and the infrastructure on which they rely, including Oak Beach Road. During Superstorm Sandy, part of the western edge of the road collapsed due to the destabilization of the shoreline and subsurface material. The Proposed Action would be located at 144-221 Oak Beach Road, Oak Beach, Suffolk, New York. This action has been classified as a Type I action pursuant to SEQRA, and GOSR determined that the Proposed Action would not result in significant environmental impacts. The lead agency letter was sent out October 4, 2018 and the comment period ended on November 4, 2018. Additional information regarding the Proposed Action and its location are provided in the attached Negative Declaration. The appendices and attachments are provided in the attached Negative Declaration. The complete Negative Declaration is available at: https://stormrecovery.ny.gov/environmental-docs.

The review of the Proposed Action under NEPA and SEQRA will satisfy the requirements of 24 CFR Part 58 and 6 NYCRR Part 617.

If you have any questions, please feel free to contact me at (212) 480-6265. Thank you for your consideration and cooperation.

Sincerely,

Matt Accardi
Assistant General Counsel, Bureau of Environmental Review and Assessment
Governor's Office of Storm Recovery
New York State Homes & Community Renewal

Enclosure: List of Involved and Interested Agencies
Negative Declaration excerpt excluding attachments (complete Negative Declaration available at https://stormrecovery.ny.gov/environmental-docs)

Distribution List for Lead Agency - Shoreline Stabilization and Road Improvements – Oak Beach

Involved/Interested Agencies

Involved

Rich Schaffer
Supervisor
Town of Babylon
200 E. Sunrise Highway
Lindenhurst, NY 11757

Brian Zitani
Town of Babylon
Department of Environmental Control
200 E. Sunrise Highway
Lindenhurst, NY 11757

Roger Evans, Regional Permit Administrator, Region 1
New York State Department of Environmental Conservation
SUNY @ Stony Brook
50 Circle Road
Stony Brook, NY 11790-3409

Joseph Brown, P.E., Regional Director
New York State Department of Transportation Region 10
State Office Building
250 Veterans Memorial Highway
Hauppauge, NY 11788

Interested

Antonio A. Martinez
Deputy Supervisor, Councilman
Town of Babylon
Supervisor's Office
200 E. Sunrise Highway
Lindenhurst, NY 11757

Gerry Compitello
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Town Clerk
Office of the Town Clerk
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Planning and Development
Town of Babylon
200 E. Sunrise Highway
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Mr. Ron Rausch, Director
Environmental Management Bureau
Office of Parks, Recreation and Historic Preservation
625 Broadway, 2nd Floor
Albany, New York 12238

Mr. Randy Andre
Chief of Mitigation Programs & Agency Preservation Officer
NYS Division of Homeland Security & Emergency Services
1220 Washington Avenue
Bldg 7A, Floor 4
Albany, NY 12242

STATE ENVIRONMENTAL QUALITY REVIEW ACT DETERMINATION OF NON-SIGNIFICANCE (NEGATIVE DECLARATION)

SHORELINE STABILIZATION AND ROAD IMPROVEMENTS – OAK BEACH PROJECT

DATE: November 6, 2018

NAME OF ACTION: Shoreline Stabilization and Road Improvements – Oak Beach Project

LOCATION: 144-221 Oak Beach Road, Oak Beach, Suffolk, New York

SEQRA CLASSIFICATION: [X} Type I; [ ] Unlisted

REVIEW TYPE: [X] Coordinated; [ ] Uncoordinated

DETERMINATION OF SIGNIFICANCE: [X] Negative Declaration; [ ] Positive Declaration

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The purpose of this Negative Declaration is to evaluate environmental impacts from the Proposed Action, Shoreline Stabilization and Road Improvements – Oak Beach Project.

The Proposed Project:

The Governor's Office of Storm Recovery (GOSR), acting under the auspices of New York State Homes and Community Renewal's (HCR) Housing Trust Fund Corporation (HTFC), is managing the U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant – Disaster Recovery (CDBG-DR) program pursuant to the Disaster Relief Appropriations Act of 2013 (Public Law 113-2, approved January 29, 2013). GOSR intends to approve funding from the CDBG-DR Community Reconstruction Program Fund to strengthen the shoreline at the most critical points along Oak Beach's shoreline and raise Oak Beach Road.

The proposed project includes the restoration of an existing roadway that has sustained damage due to past erosion and storm events. Two sections of shoreline stabilization are proposed to prevent future erosion events from impacting the roadway. Oak Beach Road is a single-entry road that serves all of Oak Beach's residents and becomes impassable during flood events due to its proximity to the inadequately protected shoreline. Part of the western edge of the road collapsed and was attributed to damage sustained along the shoreline and subsurface materials. The jetties along this stretch of shoreline will be upgraded for anticipated sea level rise and connected to the adjacent shoreline structures (revetments) to mitigate these breach points in the future.

The proposed project seeks to reduce flooding to residences and the infrastructure on which they rely, including water systems, and public facilities. The proposed project will also fund improvements to Oak Beach Road to reduce on-street flooding and improve drainage, particularly through the incorporation of green infrastructure. Improvements to the roadway include altering the pitch of the road, utilization of the northern vegetated flank as a bioswale, and optimization of Oak Beach Park at the easterly start of the roadway for the infiltration of excess stormwater.

The improvements to Oak Beach Road and associated shoreline are shown in the attached design plans. Approximately 22 feet by 1,489 feet of the roadway will be restored. Oak Beach Road asphalt will be elevated with clearing and grading along the northern side of the road, 20 feet to the north. Within this 20-foot-wide strip of cleared land an approximately 9,543 square-foot bioswale will be constructed on the north side of the roadway and an approximate 13,443 square-foot planted stabilization berm will be constructed on the south side of the roadway. Appropriate native species will be utilized within the vegetated bioswale and stabilization berm. On the south side of the road, at two sections an eastern and western section of the road, a planted berm with soil

will be constructed for stabilization and connected to a stone revetment (geotextile fabric and armor stone), which will be anchored into a vegetated low sill bulkhead up to the mean high-water line. The two sections are approximately 40 feet in length and total approximately 20,322 square feet. This section of road has no homes or other structures adjacent to it and is located on a narrow strip of land on a barrier island, between the Atlantic Ocean and Great South Bay. The road runs between Gilgo State Park and Captree State Park.

A total of approximately 2,200 cubic yards of armor stone, and approximately 600 cubic yards of bedding stone will be utilized for the stabilization of the shoreline. Approximately 2,730 square feet of stone will be placed seaward of mean high water (MHW) and approximately 450 cubic yards of clean sand will be obtained from an approved upland location to be utilized as backfill. An approximate 32,850 square-foot portion of the roadway will be raised and repaired. The impervious roadway surface will not extend beyond the limits of the existing impervious roadway.

Creation of the bioswale on the north side of the roadway will require the removal of sand to be used in the regrading of the area immediately north of the bioswale and approximately 450 cubic yards of clean sand backfill will be used on the south side of the roadway, landward of the shoreline stabilization structures, to create a planted stabilization berm.

Track mounted machinery consistent with roadway construction, excavation and stone placement will be utilized. Equipment may include excavator, skid-steer and backhoe. All activities will occur in single phase. Silt fence will be installed around the area of disturbance. All machinery will be stored landward of the delineated wetland boundary.

Purpose and Need:
Oak Beach Road is a single-entry road which becomes impassable during flood events due to its proximity to the inadequately protected shoreline. During Superstorm Sandy, part of the western edge of the road collapsed due to the destabilization of the shoreline and subsurface material. Jetties need to be reinforced and upgraded to prevent future inundation of the road. Oak Beach Road is the only evacuation route for many residents. The proposed project will reduce shoreline erosion and flood risk to residences and related infrastructure along Oak Beach Road in the community. The project will reduce storm damage from storm surge for residences and the infrastructure on which they rely, including Oak Beach Road, water systems, and public facilities.

Existing Conditions:
The Oak Beach Road runs east-west across the project site. Three stone stabilization/jetty structures extend from the shoreline into the waterway. Patches of shrubs and grasses are located sporadically immediately north and south of the roadway.

Oak Beach is entirely residential. The community, which contains 117 homes, is unique in that the houses in some areas sit three rows deep from the road to the water and are connected by a series of residential boardwalks. For the homes in the second and third rows from the road, the boardwalks are the sole means of access for the residents, as well as for emergency services. Maintenance of the boardwalk system is the responsibility of the adjacent homeowner.

Oak Beach Road is a single-entry road that serves all of Oak Beach's residents. NYS Parks owns the property and infrastructure, but the improvements will be the responsibility of the Town of Babylon. Oak Beach road is a critical roadway that becomes impassable during flood events due to its proximity to the inadequately protected shoreline. It is also subject to damage and destabilization, as occurred during Superstorm Sandy. When Oak Beach Road is flooded during a storm event, the sole evacuation route for the 53 residents who live west of the proposed project is compromised.

Funding:

The total Project cost is estimated at $1,285,000. GOSR proposes to allocate funding pursuant to HUD CDBG-DR program as authorized by Public Law 113-2, approved January 29, 2013.

Environmental Considerations:
Oak Beach Road and associated shoreline are located in the 100-year floodplain and experienced severe tidal flooding during Superstorm Sandy and Hurricane Irene. The severity of these storms along with significant flooding that occurs when major rainstorms coincide with a high tide period, demonstrated the need for road raising and shoreline improvements. The proposed project will reduce shoreline erosion and flood risk to residences and related infrastructure along Oak Beach Road in the community. The proposed project will reduce storm damage from storm surge for residences and the infrastructure on which they rely, including Oak Beach Road, water systems, and public facilities.

The attached Full Environmental Assessment Form (FEAF) assessed multiple resource topics, for some of which no potential impacts were identified and some have potential impacts. The attached FEAF and associated analysis finds that the Proposed Action will not result in a significant adverse impact on these resources.

Standard Requirements:
Any change to the proposed project as described will require re-evaluation by GOSR's Certifying Officer for compliance with SEQRA and other laws, regulations and policies.

This review does not address all federal, state and local requirements. Acceptance of federal funding requires recipient to comply with all federal, state and local laws. Failure to obtain all appropriate federal, state and local environmental permits and clearances may jeopardize federal funding.

Additional Mitigation Measures:
To the extent practicable, the following mitigation measures recommended by the United States Environmental Protection Agency would be implemented by the Responsible Entity to minimize environmental impacts and create a more sustainable Project:

- Construction and demolition – utilize local and recycled materials in the construction process and to recycle materials generated onsite to the maximum extent possible
- Clean diesel – implement diesel controls, cleaner fuel, and cleaner construction practices for on-road and off-road equipment used for transportation, soil movement, or other construction activities, including:
    - Strategies and technologies that reduce unnecessary idling, including auxiliary power units, the use of electric equipment, and strict enforcement of idling limits; and
    - Use of clean diesel through add-on control technologies like diesel particulate filters and diesel oxidation catalysts, repowers, or newer, cleaner equipment.
- Stormwater – utilize low impact development (LID) principles such as minimizing effective imperviousness to create site drainage, and the planting of native and non-invasive vegetation on the Project site for stormwater management purposes. Other LID practices can include bioretention facilities, rain gardens, vegetated rooftops, rain barrels, and permeable pavements;
- Cost-efficient, environmentally friendly landscaping – EPA's GreenScapes program provides cost-efficient and environmentally friendly solutions for landscaping;

In addition to the factors considered above, the GOSR considered the following guidance from the State Environmental Quality Review Act and its implementing regulations and determined that the Proposed Action would:

i. Not result in "a substantial adverse change in existing air quality, ground or surface water quality or quantity, traffic or noise levels; a substantial increase in solid waste production; a substantial increase in potential for erosion, flooding, leaching or drainage problems;" (§617.7(c)(1)(i))

ii. Not result in "the removal or destruction of large quantities of vegetation or fauna; substantial interference with the movement of any resident or migratory fish or wildlife species; impacts on a significant habitat area; or other significant adverse impacts to natural resources;"(§617.7(c)(1)(iii))

iii. Not result in "the creation of a material conflict with a community's current plans or goals as officially approved or adopted;" (§617.7(c)(1)(iv))

iv. Not result in "the creation of a hazard to human health;" (§617.7(c)(1)(vii))

v. Not result in "a substantial change in the use, or intensity of use, of land including agricultural, open space or recreational resources, or in its capacity to support existing uses;" (§617.7(c)(1)(viii))

vi. Not result in "the encouraging or attracting of a large number of people to a place or places for more than a few days, compared to the number of people who would come to such place absent the action;" (§617.7(c)(1)(ix))

vii. Not result in "the creation of a material demand for other actions that would result in one of the above consequences;" (§617.7(c)(1)(x))

viii. Not result in "changes in two or more elements of the environment, no one of which has a significant impact on the environment, but when considered together result in a substantial adverse impact on the environment; or (§617.7(c)(1)(xi))

Therefore, GOSR, acting as Lead Agency, and having prepared a Full Environmental Assessment Form has determined that the proposed action will not have a significant effect on the environment and a Draft Environmental Impact Statement will not need to be prepared.

Date: November 6, 2018
Matt Accardi
Certifying Officer – Bureau of Environmental Review and Assessment
Governor's Office of Storm Recovery
25 Beaver Street, 5th Floor, New York, NY 10004
Office: (212) 480-6265

Attachments:

Negative Declaration Distribution List
Environmental Assessment Form (Parts, 1, 2 and 3) and Associated Analysis
Appendix A - Figures
Attachments – Agency Consultations

A copy of this Notice is available at the following web address:

http://www.stormrecovery.ny.gov/environmental-docs

Governor's Office of
Storm Recovery

ANDREW M. CUOMO
Governor

October 4, 2018

Re: Lead Agency Designation for the Environmental Review of Shoreline Stabilization and Road Improvements – Oak Beach, 144-221 Oak Beach Road, Oak Beach, Town of Babylon, Suffolk County, New York

Dear Involved/ Interested Agency:

The Governor's Office of Storm Recovery ("GOSR") proposes to serve as lead agency under the National Environmental Policy Act ("NEPA") and State Environmental Quality Review Act ("SEQRA") and related laws for the environmental review of the proposed of Shoreline Stabilization and Road Improvements – Oak Beach (the "Proposed Action"). GOSR is conducting an environmental review of the Proposed Action on behalf of the State of New York as the recipient of Community Development Block Grant - Disaster Recovery ("CDBG-DR") funds from the U.S. Department of Housing and Urban Development under 42 U.S.C. § 5304(g).[1]

The Proposed Action will strengthen the shoreline at the most vulnerable points along Oak Beach's shoreline and raise Oak Beach Road to reduce flooding to residences and the infrastructure on which they rely, including Oak Beach Road. During Superstorm Sandy, part of the western edge of the road collapsed due to the destabilization of the shoreline and subsurface material. The Proposed Action would be located at 144-221 Oak Beach Road, Oak Beach, Suffolk, New York.

This action has been preliminarily classified as a Type I action pursuant to SEQRA. Additional information regarding the Proposed Action and its location are provided in the enclosed Long Environmental Assessment Form. The review of the Proposed Action under NEPA and SEQRA would satisfy the requirements of 24 CFR Part 58 and 6 NYCRR Part 617.

Your agency or organization has been identified as a potential cooperating, involved, or interested agency for the review and approval of the Proposed Action. If your agency consents to GOSR's serving as the lead agency for review under NEPA and SEQRA, please so indicate by signing this letter and returning it at your earliest convenience to: Matt Accardi at 25 Beaver Street, 5th Floor,

[1] The Governor's Office of Storm Recovery, operating under the auspices of New York State Homes and Community Renewal's Housing Trust Fund Corporation, is the Responsible Entity for the administration of the CDBG-DR grants to the State of New York.

New York, NY 10004, or simply email a signed copy to Matt.Accardi@stormrecovery.ny.gov If we have not heard from you by November 4, 2018, your consent will be assumed.

If you have any questions, please feel free to contact me at (212) 480-6265. Thank you for your consideration and cooperation.

Sincerely,

Matt Accardi
Assistant General Counsel, Bureau of Environmental Review and Assessment
Governor's Office of Storm Recovery
New York State Homes & Community Renewal

The undersigned hereby consents to The Governor's Office of Storm Recovery serving as lead agency for the Shoreline Stabilization and Road Improvements – Oak Beach, Oak Beach, NY.

Agency/Organization:_____

By: _____

Name: _____

Title: _____

Date: _____

Permits/Approvals/Comments:_____
_____
_____
_____
_____
_____
_____
_____

Enclosure: List of Involved and Interested Agencies
Long Environmental Assessment Form Part 1

Distribution List for Lead Agency - Shoreline Stabilization and Road Improvements – Oak Beach

Involved/Interested Agencies

Involved

Rich Schaffer
Supervisor
Town of Babylon
200 E. Sunrise Highway
Lindenhurst, NY 11757

Brian Zitani
Town of Babylon
Department of Environmental Control
200 E. Sunrise Highway
Lindenhurst, NY 11757

Roger Evans, Regional Permit Administrator, Region 1
New York State Department of Environmental Conservation
SUNY @ Stony Brook
50 Circle Road
Stony Brook, NY 11790-3409

Joseph Brown, P.E., Regional Director
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Department of Environmental Control
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Thomas Young
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Planning and Development
Town of Babylon
200 E. Sunrise Highway
Lindenhurst, NY 11757

Mr. Ron Rausch, Director
Environmental Management Bureau
Office of Parks, Recreation and Historic Preservation
625 Broadway, 2nd Floor
Albany, New York 12238

Mr. Randy Andre
Chief of Mitigation Programs & Agency Preservation Officer
NYS Division of Homeland Security & Emergency Services
1220 Washington Avenue
Bldg 7A, Floor 4
Albany, NY 12242

Full Environmental Assessment Form
Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Sponsor Information.

Name of Action or Project: Shoreline Stabilization and Road Improvements – Oak Beach		
Project Location (describe, and attach a general location map): 144-221 Oak Beach Road, Oak Beach, Suffolk New York		
Brief Description of Proposed Action (include purpose or need): The Town of Babylon is requesting Community Development Block Grant – Disaster Recovery (CDBG-DR) funding to strengthen the shoreline at the most critical points along Oak Beach's shoreline and raise Oak Beach Road. The proposed project includes the restoration of the existing roadway that has sustained damage due to past erosion and storm events. Two sections of shoreline stabilization are proposed to prevent future erosion events from impacting the roadway. Approximately 22 feet by 1,489 feet of the roadway will be restored. Oak Beach Road asphalt will be elevated with clearing and grading along the northern side of the road, 20 feet to the north. Within this 20-foot-wide strip of cleared land an approximately 9,543 square foot bioswale will be constructed the north side of the roadway and an approximate 13,443 square foot planted stabilization berm will be constructed on the south side of the roadway. Appropriate native species will be utilized within the vegetated bioswale and stabilization berm. On the south side of the road at two sections of the road, an eastern and western section, a planted berm with soil will be constructed for stabilization and connected to a stone revetment (geotextile fabric and armor stone) which will be anchored into a vegetated low sill bulkhead up to the mean high-water line. The two sections are approximately 40 feet in length and total approximately 20,322 square feet.		
Name of Applicant/Sponsor: Town of Babylon, Rich Schaffer	Telephone: (631) 957-3072 E-Mail: rschaffer@townofbabylon.com	
Address: 200 East Sunrise Highway		
City/PO: Lindenhurst	State: NY	Zip Code: 11757
Project Contact (if not same as sponsor; give name and title/role): Brian Zitani, Waterways Management Supervisor	Telephone: 631-422-7640 E-Mail: bzitani@townofbabylon.com	
Address: TOBDEC, 281 Phelps Lane		
City/PO: North Babylon	State: NY	Zip Code: 11703
Property Owner (if not same as sponsor):	Telephone: E-Mail:	
Address:		
City/PO:	State:	Zip Code:

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)		
Government Entity	**If Yes: Identify Agency and Approval(s) Required**	**Application Date (Actual or projected)**
a. City Council, Town Board, or Village Board of Trustees ☑Yes☐No	Town of Babylon - Coastal Erosion Management Permit Application	August 2018
b. City, Town or Village Planning Board or Commission ☐Yes☑No		
c. City Council, Town or Village Zoning Board of Appeals ☐Yes☑No		
d. Other local agencies ☐Yes☑No		
e. County agencies ☐Yes☑No		
f. Regional agencies ☐Yes☑No		
g. State agencies ☑Yes☐No	NYSDEC (NSYDEC Joint Application), DOS (coastal consistency), GOSR (funding)	October 2018
h. Federal agencies ☐Yes☐No	Army Corps of Engineers (NWP-13), USFWS, EPA, Regional EFH Coordinator, HUD, attached	October 2018

i. Coastal Resources.

i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? ☑Yes☐No

ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? ☐Yes☑No

iii. Is the project site within a Coastal Erosion Hazard Area? ☑Yes☐No

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? ☐Yes☑No

- **If Yes,** complete sections C, F and G.
- **If No,** proceed to question C.2 and complete all remaining sections and questions in Part I

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? ☑Yes☐No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? ☐Yes☑No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) ☐Yes☑No

If Yes, identify the plan(s):

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? ☐Yes☑No

If Yes, identify the plan(s):

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☑ Yes ☐ No
If Yes, what is the zoning classification(s) including any applicable overlay district?
Single Family Residential - B* Residence Zoning District

b. Is the use permitted or allowed by a special or conditional use permit? ☑ Yes ☐ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☑ No
If Yes,
i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? Babylon Union Free School District

b. What police or other public protection forces serve the project site?
Suffolk County Police, Babylon Fire Department

c. Which fire protection and emergency medical services serve the project site?
Babylon Fire Department

d. What parks serve the project site?
Robert Moses, Richard Brooks, Gilgo State park

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Road improvement and bank stabilization, residential

b. a. Total acreage of the site of the proposed action? 1.6 acres
b. Total acreage to be physically disturbed? 1.6 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 1.6 acres

c. Is the proposed action an expansion of an existing project or use? ☐ Yes ☑ No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☑ No
If Yes,
i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)

ii. Is a cluster/conservation layout proposed? ☐ Yes ☑ No
iii. Number of lots proposed? _____
iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will proposed action be constructed in multiple phases? ☐ Yes ☑ No
i. If No, anticipated period of construction: _____ months
ii. If Yes:
- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____ year
- Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

f. Does the project include new residential uses? ☐Yes ☑No
If Yes, show numbers of units proposed.

	One Family	Two Family	Three Family	Multiple Family (four or more)
Initial Phase	_____	_____	_____	_____
At completion of all phases	_____	_____	_____	_____

g. Does the proposed action include new non-residential construction (including expansions)? ☐Yes ☑No
If Yes,
i. Total number of structures _____
ii. Dimensions (in feet) of largest proposed structure: _____height; _____width; and _____ length
iii. Approximate extent of building space to be heated or cooled: _____ square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☐Yes ☑No
If Yes,
i. Purpose of the impoundment: _____
ii. If a water impoundment, the principal source of the water: ☐ Ground water ☐Surface water streams ☐Other specify:
_____
iii. If other than water, identify the type of impounded/contained liquids and their source.
_____
iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres
v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length
vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete):
_____

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite) ☐Yes ☑No
If Yes:
i. What is the purpose of the excavation or dredging? _____
ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?
- Volume (specify tons or cubic yards): _____
- Over what duration of time? _____

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.
_____
_____
iv. Will there be onsite dewatering or processing of excavated materials? ☐Yes ☑No
If yes, describe. _____
_____
v. What is the total area to be dredged or excavated? _____ acres
vi. What is the maximum area to be worked at any one time? _____ acres
vii. What would be the maximum depth of excavation or dredging? _____ feet
viii. Will the excavation require blasting? ☐Yes ☑No
ix. Summarize site reclamation goals and plan: _____
_____
_____

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? ☑Yes ☐No
If Yes:
i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): Fire Island Inlet: ±2,370 SF of the proposed shoreline stabilization will be placed seaward MHW. Tidal wetland.
_____

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

The proposed project will not cause erosion and will prevent damage to the adjacent area caused by erosion events. The shoreline of the adjacent properties is stabilized and increased erosion in these areas is not anticipated to result from the proposed project. A silt fence will be installed during construction and permit conditions will be complied with.

iii. Will proposed action cause or result in disturbance to bottom sediments? ☐Yes ☑No

If Yes, describe: _____

iv. Will proposed action cause or result in the destruction or removal of aquatic vegetation? ☐Yes ☑No

If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion: _____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____
- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

c. Will the proposed action use, or create a new demand for water? ☐Yes ☑No

If Yes:

i. Total anticipated water usage/demand per day: _____ gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☐Yes ☑No

If Yes:

- Name of district or service area: _____
- Does the existing public water supply have capacity to serve the proposal? ☐Yes ☑No
- Is the project site in the existing district? ☐Yes ☑No
- Is expansion of the district needed? ☐Yes ☑No
- Do existing lines serve the project site? ☐Yes ☑No

iii. Will line extension within an existing district be necessary to supply the project? ☐Yes ☑No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____
- Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐ Yes ☑No

If, Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

vi. If water supply will be from wells (public or private), maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☐Yes ☑No

If Yes:

i. Total anticipated liquid waste generation per day: _____ gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

iii. Will the proposed action use any existing public wastewater treatment facilities? ☐Yes ☑No

If Yes:

- Name of wastewater treatment plant to be used: Private septic systems
- Name of district: Town of Babylon
- Does the existing wastewater treatment plant have capacity to serve the project? ☐Yes ☐No
- Is the project site in the existing district? ☐Yes ☐No
- Is expansion of the district needed? ☐Yes ☐No

- Do existing sewer lines serve the project site? ☐Yes ☐No
- Will line extension within an existing district be necessary to serve the project? ☐Yes ☐No

  If Yes:
  - Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? ☐Yes ☑No

If Yes:
- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge, or describe subsurface disposal plans):

_____

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

_____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? ☐Yes ☑No

If Yes:

i. How much impervious surface will the project create in relation to total size of project parcel?

_____ Square feet or _____ acres (impervious surface)

_____ Square feet or _____ acres (parcel size)

ii. Describe types of new point sources. _____

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

_____

- If to surface waters, identify receiving water bodies or wetlands: _____
- Will stormwater runoff flow to adjacent properties? ☐Yes ☑No

iv. Does proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? ☐Yes ☑No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? ☐Yes ☑No

If Yes, identify:

i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

_____

ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

_____

iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

_____

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? ☐Yes ☑No

If Yes:

i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) ☐Yes ☐No

ii. In addition to emissions as calculated in the application, the project will generate:
- _____Tons/year (short tons) of Carbon Dioxide (CO_2)
- _____Tons/year (short tons) of Nitrous Oxide (N_2O)
- _____Tons/year (short tons) of Perfluorocarbons (PFCs)
- _____Tons/year (short tons) of Sulfur Hexafluoride (SF_6)
- _____Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)
- _____Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? ☐Yes ☑No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? ☐Yes ☑No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):

_____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? ☐Yes ☑No

If Yes:

i. When is the peak traffic expected (Check all that apply): ☐ Morning ☐ Evening ☐Weekend ☐ Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of semi-trailer truck trips/day: _____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? ☐Yes ☐No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe:

_____

vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? ☐Yes ☐No

vii Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? ☐Yes ☐No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? ☐Yes ☐No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? ☐Yes ☑No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other):

_____

iii. Will the proposed action require a new, or an upgrade to, an existing substation? ☐Yes ☐No

l. Hours of operation. Answer all items which apply.

i. During Construction:

- Monday - Friday: 730 am to 430 pm
- Saturday: NA
- Sunday: NA
- Holidays: NA

ii. During Operations:

- Monday - Friday: NA
- Saturday: NA
- Sunday: NA
- Holidays: NA

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? ☐ Yes ☑ No

If yes:

i. Provide details including sources, time of day and duration:

ii. Will proposed action remove existing natural barriers that could act as a noise barrier or screen? ☐ Yes ☐ No

Describe:

n. Will the proposed action have outdoor lighting? ☐ Yes ☑ No

If yes:

i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? ☐ Yes ☐ No

Describe:

o. Does the proposed action have the potential to produce odors for more than one hour per day? ☐ Yes ☑ No

If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures:

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? ☐ Yes ☑ No

If Yes:

i. Product(s) to be stored

ii. Volume(s) _____ per unit time _____ (e.g., month, year)

iii. Generally describe proposed storage facilities:

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ☐ Yes ☑ No

If Yes:

i. Describe proposed treatment(s):

ii. Will the proposed action use Integrated Pest Management Practices? ☐ Yes ☐ No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? ☑ Yes ☐ No

If Yes:

i. Describe any solid waste(s) to be generated during construction or operation of the facility:

- Construction: debris tons per undetermined (unit of time)
- Operation : NA tons per _____ (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction:
- Operation:

iii. Proposed disposal methods/facilities for solid waste generated on-site:

- Construction: landfill
- Operation:

s. Does the proposed action include construction or modification of a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

iii. Specify amount to be handled or generated _____ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☐ Yes ☐ No

If Yes: provide name and location of facility: _____

If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site.

☐ Urban ☐ Industrial ☐ Commercial ☑ Residential (suburban) ☐ Rural (non-farm)
☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other (specify): _____

ii. If mix of uses, generally describe:

b. Land uses and covertypes on the project site.

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	32,758 square feet	32,758 square feet	no change
• Forested	20,793 square feet	11,250 square feet	9,543 square feet
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	0	0	0
• Agricultural (includes active orchards, field, greenhouse etc.)	0	0	0
• Surface water features (lakes, ponds, streams, rivers, etc.)	0	0	0
• Wetlands (freshwater or tidal)	±2,370 square feet	±2,370 square feet	0
• Non-vegetated (bare rock, earth or fill)	0	0	0
• Other Describe: _____			

c. Is the project site presently used by members of the community for public recreation? ☑ Yes ☐ No

i. If Yes: explain: beach walking

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? ☐ Yes ☑ No

If Yes,

i. Identify Facilities: _____

e. Does the project site contain an existing dam? ☐ Yes ☑ No

If Yes:

i. Dimensions of the dam and impoundment:

- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____

iii. Provide date and summarize results of last inspection: _____

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Has the facility been formally closed? ☐ Yes ☐ No

- If yes, cite sources/documentation: _____

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility: _____

iii. Describe any development constraints due to the prior solid waste activities: _____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred: _____

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? ☐ Yes ☑ No

If Yes:

i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: ☐ Yes ☑ No

☐ Yes – Spills Incidents database — Provide DEC ID number(s): _____

☐ Yes – Environmental Site Remediation database — Provide DEC ID number(s): _____

☐ Neither database

ii. If site has been subject of RCRA corrective activities, describe control measures: _____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? ☐ Yes ☑ No

If yes, provide DEC ID number(s): _____

iv. If yes to (i), (ii) or (iii) above, describe current status of site(s): _____

v. Is the project site subject to an institutional control limiting property uses? ☐Yes ☑No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? ☐Yes ☑No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? 2,000 feet

b. Are there bedrock outcroppings on the project site? ☐Yes ☑No
If Yes, what proportion of the site is comprised of bedrock outcroppings? _____%

c. Predominant soil type(s) present on project site:

sand	100 %
	%
	%

d. What is the average depth to the water table on the project site? Average: <10 feet

e. Drainage status of project site soils:
- ☑ Well Drained: 100 % of site
- ☐ Moderately Well Drained: ____% of site
- ☐ Poorly Drained ____% of site

f. Approximate proportion of proposed action site with slopes:
- ☑ 0-10%: 50 % of site
- ☐ 10-15%: ____% of site
- ☑ 15% or greater: 50 % of site

g. Are there any unique geologic features on the project site? ☐Yes ☑No
If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☑Yes ☐No

ii. Do any wetlands or other waterbodies adjoin the project site? ☑Yes ☐No

If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☑Yes ☐No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name _____ Classification _____
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name USFWS NWI Wetland adjacent Approximate Size _____
- Wetland No. (if regulated by DEC) NYSDEC wetland adjacent

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☐Yes ☑No

If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? ☐Yes ☑No

j. Is the project site in the 100 year Floodplain? ☑Yes ☐No

k. Is the project site in the 500 year Floodplain? ☐Yes ☑No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☑Yes ☐No
If Yes:

i. Name of aquifer: Nassau-Suffolk Aquifer

m. Identify the predominant wildlife species that occupy or use the project site:
ducks, herons, terns, waterfowl

n. Does the project site contain a designated significant natural community? ☐Yes ☑No
If Yes:
i. Describe the habitat/community (composition, function, and basis for designation):
ii. Source(s) of description or evaluation:
iii. Extent of community/habitat:
- Currently: _____ acres
- Following completion of project as proposed: _____ acres
- Gain or loss (indicate + or -): _____ acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☐ Yes ☑No

Recent surveys have not identified State or Federal Threatened or Endangered Species

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☐Yes ☑No

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☑Yes ☐No
If yes, give a brief description of how the proposed action may affect that use:
Fie Island Inlet: fishing and boating

E.3. Designated Public Resources On or Near Project Site

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☐Yes ☑No
If Yes, provide county plus district name/number:

b. Are agricultural lands consisting of highly productive soils present? ☐Yes ☑No
i. If Yes: acreage(s) on project site?
ii. Source(s) of soil rating(s):

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐Yes ☑No
If Yes:
i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature
ii. Provide brief description of landmark, including values behind designation and approximate size/extent:

d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? ☐Yes ☑No
If Yes:
i. CEA name:
ii. Basis for designation:
iii. Designating agency and date:

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on, or has been nominated by the NYS Board of Historic Preservation for inclusion on, the State or National Register of Historic Places? ☐ Yes ☑ No

If Yes:

i. Nature of historic/archaeological resource: ☐ Archaeological Site ☐ Historic Building or District

ii. Name: _____

iii. Brief description of attributes on which listing is based:

_____

f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? ☐ Yes ☑ No

g. Have additional archaeological or historic site(s) or resources been identified on the project site? ☐ Yes ☑ No

If Yes:

i. Describe possible resource(s): _____

ii. Basis for identification: _____

h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? ☐ Yes ☑ No

If Yes:

i. Identify resource: _____

ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____

iii. Distance between project and resource: _____ miles.

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? ☐ Yes ☑ No

If Yes:

i. Identify the name of the river and its designation: _____

ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? ☐ Yes ☐ No

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name Town of Babylon Date October 1, 2018

Signature _____ Title Commissioner TOBDEC

PRINT FORM

ATTACHMENT A

NEW YORK STATE ENVIRONMENTAL QUALITY REVIEW
FULL ENVIRONMENTAL ASSESSMENT FORM
PART 1 – PROJECT INFORMATION

SHORELINE STABILIZATION AND ROAD IMPROVEMENTS – OAK BEACH
DESCRIPTION AND CLASSIFICATION OF ACTION

This supplemental information has been prepared for the Project listed above as a companion to the Full Environmental Assessment Form (6 NYCRR Part 617.20 - Appendix B) completed by GOSR as part of an independent review as an Involved Agency, with consideration of Criteria for Determining Significance listed in 6 NYCRR 617.7.

Project Description: The Town of Babylon is proposing to strengthen the shoreline at the most critical points along Oak Beach's shoreline and raise Oak Beach Road. The proposed project includes the restoration of the existing roadway that has sustained damage due to past erosion and storm events. Two sections of shoreline stabilization are proposed to prevent future erosion events from impacting the roadway. Oak Beach Road is a single-entry road that serves all of Oak Beach's residents and which becomes impassable during flood events due to its proximity to the inadequately protected shoreline. Part of the western edge of the road collapsed due to the destabilization of the shoreline and subsurface material. Several additional breach points, particularly adjacent to fire jetties, permitted the storm surge to enter the community and significantly added to the magnitude of flooding. These jetties will be upgraded for anticipated sea level rise and connected to the adjacent shoreline structures (revetments) to mitigate these breach points in the future.

The proposed project includes the restoration of a 22-foot x 1,489-foot portion of the Oak Beach roadway and stabilization of select portions of the adjacent shoreline to protect the roadway from future erosion events. The proposed project will reduce shoreline erosion and flood risk to residences and related infrastructure along Oak Beach Road in the community. The project will reduce storm damage from storm surge for residences and the infrastructure on which they rely, including Oak Beach Road, water systems, and public facilities.

Oak Beach Road is a single-entry road which becomes impassable during flood events due to its proximity to the inadequately protected shoreline. During Superstorm Sandy, part of the western edge of the road collapsed due to the destabilization of the shoreline and subsurface material. Jetties need to be reinforced and upgraded to prevent future inundation of the road. Oak Beach Road is the only evacuation route for some residents.

This project is part of a larger project which includes the West Gilgo to Captree Community and encompassing six distinct barrier beach communities: West Gilgo, Gilgo, Oak Beach, Oak Island, Oak Island Beach Association, and Captree Island. All of the communities are located on Jones Beach Island, with the exceptions of Oak Island and Captree Island, which lie just north of Oak Beach in the Great South Bay. All of the communities are located in the Town of Babylon, except for the eastern portion of Captree Island, which lies in the Town of Islip. The six communities are spread out along 10 miles of barrier island coastline and on three separate islands.

The improvements to Oak Beach Road and associated shoreline are shown in the attached design plans (**Attachment 1**). Approximately 22 feet by 1,489 feet of the roadway will be restored. Oak Beach Road asphalt will be elevated with clearing and grading along the northern side of the road, 20 feet to the north. Within this 20-foot-wide strip of cleared land an approximately 9,543 square foot bioswale will be constructed the north side of the roadway and an approximate 13,443 square foot planted stabilization berm will be constructed on the south side of the roadway. Appropriate native species will be utilized within the vegetated bioswale and stabilization berm. On the south side of the road at two sections of the road, an eastern and western section, a planted berm with soil will be constructed for stabilization and connected to a stone revetment (geotextile fabric and armor stone) which will be anchored into a vegetated low sill bulkhead up to the mean high-water line. The two sections are approximately 40 feet in length and total approximately 20,322 square feet. This section of road has no homes or other structures adjacent to it and is located on a narrow strip of land, a barrier island, between the Atlantic Ocean and Great South Bay. The road runs between Gilbo State Park and Captree State Park.

A total of approximately 2,200 cubic yards of armor stone, and approximately 600 cubic yards of bedding stone will be utilized for the stabilization of the shoreline. Approximately 2,730 square feet of stone will be placed seaward of Mean High Water (MHW) and approximately 450 cubic yards of clean sand will be obtained from an approved upland location to be utilized as backfill. An approximate 32,850 square foot portion of the roadway will be raised and repaired. The impervious roadway surface will not extend beyond the limits of the existing impervious roadway.

Creation of the bioswale on the north side of the roadway will require the removal of sand to be used in the regrading of the area immediately north of the bioswale and approximately 450 cubic yards of clean sand backfill will be used on the south side of the roadway, landward of the shoreline stabilization structures, to create a planted stabilization berm.

Track mounted machinery consistent with roadway construction, excavation and stone placement will be utilized. Equipment may include excavator, skid-steer and backhoe. All activities will occur in single phase. Silt fence will be installed around the area of disturbance. All machinery will be stored landward of the delineated wetland boundary.

Based on review of available databases and consultations with appropriate state and federal agencies, there are no known or anticipated environmental issues involved with the proposed Project.

State Environmental Quality Review Act (SEQRA) Classification: Operating under the auspices of New York State Homes and Community Renewal's (HCR) and the New York Rising Community Reconstruction and Infrastructure Program Fund, the Governor's Office of Storm Recovery (GOSR) disburses funding made available by the U.S. Department of Housing & Urban Development's (HUD) CDBG-DR program. In this role, GOSR serves as an Involved Agency and must make a discretionary decision to fund the proposed action. It is independently responsible for ensuring that its own decision is consistent with the requirements of SEQRA.

The proposed Project involves strengthening the shoreline at the most critical points along Oak Beach's shoreline and raising Oak Beach Road. Approximately 22 feet by 1,489 feet of the roadway will be restored. Oak Beach Road asphalt will be elevated with clearing and grading along the northern side of the road, 20 feet to the north. Within this 20-foot-wide strip of cleared land an approximately 9,543 square foot bioswale will be constructed the north side of the roadway and an approximate 13,443 square foot planted stabilization berm will be constructed on the south side of the roadway. A total of approximately 2,200 cubic yards of armor stone, and approximately 600 cubic yards of bedding stone will be utilized for the stabilization of the shoreline. Approximately 2,730 square feet of stone will be placed seaward of Mean High Water (MHW) and approximately 450 cubic yards of clean sand will be obtained from an approved upland location to be utilized as backfill. An approximate 32,850 square foot portion of the roadway will be raised and repaired. The impervious roadway surface will not extend beyond the limits of the existing impervious roadway. The proposed project includes new construction a southern shore of Oak Beach, adjacent to northern shore of the Fire Island Inlet. The proposed Project has been classified as a Type I Action pursuant to SEQR and reviewed and completed as such. GOSR used the Full Environmental Assessment Form (FEAF) and conducted a Coordinated review as part of its determination of significance and decision to fund the action. GOSR will publish a notice in the Environmental Notice Bulletin (ENB) and also provide a copy of the Negative Declaration to the applicant and to any other involved and interested agencies, maintain the Administrative Record, and make its files available for public reference.

Full Environmental Assessment Form
Part 2 - Identification of Potential Project Impacts

Part 2 is to be completed by the lead agency. Part 2 is designed to help the lead agency inventory all potential resources that could be affected by a proposed project or action. We recognize that the lead agency's reviewer(s) will not necessarily be environmental professionals. So, the questions are designed to walk a reviewer through the assessment process by providing a series of questions that can be answered using the information found in Part 1. To further assist the lead agency in completing Part 2, the form identifies the most relevant questions in Part 1 that will provide the information needed to answer the Part 2 question. When Part 2 is completed, the lead agency will have identified the relevant environmental areas that may be impacted by the proposed activity.

If the lead agency is a state agency **and** the action is in any Coastal Area, complete the Coastal Assessment Form before proceeding with this assessment.

Tips for completing Part 2:

- Review all of the information provided in Part 1.
- Review any application, maps, supporting materials and the Full EAF Workbook.
- Answer each of the 18 questions in Part 2.
- If you answer "**Yes"** to a numbered question, please complete all the questions that follow in that section.
- If you answer "**No"** to a numbered question, move on to the next numbered question.
- Check appropriate column to indicate the anticipated size of the impact.
- Proposed projects that would exceed a numeric threshold contained in a question should result in the reviewing agency checking the box "Moderate to large impact may occur."
- The reviewer is not expected to be an expert in environmental analysis.
- If you are not sure or undecided about the size of an impact, it may help to review the sub-questions for the general question and consult the workbook.
- When answering a question consider all components of the proposed activity, that is, the "whole action".
- Consider the possibility for long-term and cumulative impacts as well as direct impacts.
- Answer the question in a reasonable manner considering the scale and context of the project.

1. Impact on Land
Proposed action may involve construction on, or physical alteration of, the land surface of the proposed site. (See Part 1. D.1) ☐ NO ☑ YES
If "Yes", answer questions a - j. If "No", move on to Section 2.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may involve construction on land where depth to water table is less than 3 feet.	E2d	☑	☐
b. The proposed action may involve construction on slopes of 15% or greater.	E2f	☑	☐
c. The proposed action may involve construction on land where bedrock is exposed, or generally within 5 feet of existing ground surface.	E2a	☑	☐
d. The proposed action may involve the excavation and removal of more than 1,000 tons of natural material.	D2a	☑	☐
e. The proposed action may involve construction that continues for more than one year or in multiple phases.	D1e	☑	☐
f. The proposed action may result in increased erosion, whether from physical disturbance or vegetation removal (including from treatment by herbicides).	D2e, D2q	☑	☐
g. The proposed action is, or may be, located within a Coastal Erosion hazard area.	B1i	☑	☐
h. Other impacts: _____		☑	☐

2. Impact on Geological Features

The proposed action may result in the modification or destruction of, or inhibit access to, any unique or unusual land forms on the site (e.g., cliffs, dunes, minerals, fossils, caves). (See Part 1. E.2.g)

☑ NO ☐ YES

If "Yes", answer questions a - c. If "No", move on to Section 3.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Identify the specific land form(s) attached: _____ _____	E2g	☐	☐
b. The proposed action may affect or is adjacent to a geological feature listed as a registered National Natural Landmark. Specific feature: _____	E3c	☐	☐
c. Other impacts: _____ _____		☐	☐

3. Impacts on Surface Water

The proposed action may affect one or more wetlands or other surface water bodies (e.g., streams, rivers, ponds or lakes). (See Part 1. D.2, E.2.h)

☐ NO ☑ YES

If "Yes", answer questions a - l. If "No", move on to Section 4.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may create a new water body.	D2b, D1h	☑	☐
b. The proposed action may result in an increase or decrease of over 10% or more than a 10 acre increase or decrease in the surface area of any body of water.	D2b	☑	☐
c. The proposed action may involve dredging more than 100 cubic yards of material from a wetland or water body.	D2a	☑	☐
d. The proposed action may involve construction within or adjoining a freshwater or tidal wetland, or in the bed or banks of any other water body.	E2h	☑	☐
e. The proposed action may create turbidity in a waterbody, either from upland erosion, runoff or by disturbing bottom sediments.	D2a, D2h	☑	☐
f. The proposed action may include construction of one or more intake(s) for withdrawal of water from surface water.	D2c	☑	☐
g. The proposed action may include construction of one or more outfall(s) for discharge of wastewater to surface water(s).	D2d	☑	☐
h. The proposed action may cause soil erosion, or otherwise create a source of stormwater discharge that may lead to siltation or other degradation of receiving water bodies.	D2e	☑	☐
i. The proposed action may affect the water quality of any water bodies within or downstream of the site of the proposed action.	E2h	☑	☐
j. The proposed action may involve the application of pesticides or herbicides in or around any water body.	D2q, E2h	☑	☐
k. The proposed action may require the construction of new, or expansion of existing, wastewater treatment facilities.	D1a, D2d	☑	☐

l. Other impacts: _____ _____		☑	☐

4. Impact on groundwater

The proposed action may result in new or additional use of ground water, or may have the potential to introduce contaminants to ground water or an aquifer. (See Part 1. D.2.a, D.2.c, D.2.d, D.2.p, D.2.q, D.2.t)

☑ NO ☐ YES

If "Yes", answer questions a - h. If "No", move on to Section 5.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may require new water supply wells, or create additional demand on supplies from existing water supply wells.	D2c	☐	☐
b. Water supply demand from the proposed action may exceed safe and sustainable withdrawal capacity rate of the local supply or aquifer. Cite Source: _____	D2c	☐	☐
c. The proposed action may allow or result in residential uses in areas without water and sewer services.	D1a, D2c	☐	☐
d. The proposed action may include or require wastewater discharged to groundwater.	D2d, E2l	☐	☐
e. The proposed action may result in the construction of water supply wells in locations where groundwater is, or is suspected to be, contaminated.	D2c, E1f, E1g, E1h	☐	☐
f. The proposed action may require the bulk storage of petroleum or chemical products over ground water or an aquifer.	D2p, E2l	☐	☐
g. The proposed action may involve the commercial application of pesticides within 100 feet of potable drinking water or irrigation sources.	E2h, D2q, E2l, D2c	☐	☐
h. Other impacts: _____ _____		☐	☐

5. Impact on Flooding

The proposed action may result in development on lands subject to flooding. (See Part 1. E.2)

☐ NO ☑ YES

If "Yes", answer questions a - g. If "No", move on to Section 6.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in development in a designated floodway.	E2i	☑	☐
b. The proposed action may result in development within a 100 year floodplain.	E2j	☑	☐
c. The proposed action may result in development within a 500 year floodplain.	E2k	☑	☐
d. The proposed action may result in, or require, modification of existing drainage patterns.	D2b, D2e	☑	☐
e. The proposed action may change flood water flows that contribute to flooding.	D2b, E2i, E2j, E2k	☑	☐
f. If there is a dam located on the site of the proposed action, is the dam in need of repair, or upgrade?	E1e	☑	☐

g. Other impacts: _____ _____		☑	☐

6. Impacts on Air

The proposed action may include a state regulated air emission source. (See Part 1. D.2.f., D,2,h, D.2.g) ☑ NO ☐ YES

If "Yes", answer questions a - f. If "No", move on to Section 7.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. If the proposed action requires federal or state air emission permits, the action may also emit one or more greenhouse gases at or above the following levels:			
i. More than 1000 tons/year of carbon dioxide (CO_2)	D2g	☐	☐
ii. More than 3.5 tons/year of nitrous oxide (N_2O)	D2g	☐	☐
iii. More than 1000 tons/year of carbon equivalent of perfluorocarbons (PFCs)	D2g	☐	☐
iv. More than .045 tons/year of sulfur hexafluoride (SF_6)	D2g	☐	☐
v. More than 1000 tons/year of carbon dioxide equivalent of hydrochloroflourocarbons (HFCs) emissions	D2g	☐	☐
vi. 43 tons/year or more of methane	D2h	☐	☐
b. The proposed action may generate 10 tons/year or more of any one designated hazardous air pollutant, or 25 tons/year or more of any combination of such hazardous air pollutants.	D2g	☐	☐
c. The proposed action may require a state air registration, or may produce an emissions rate of total contaminants that may exceed 5 lbs. per hour, or may include a heat source capable of producing more than 10 million BTU's per hour.	D2f, D2g	☐	☐
d. The proposed action may reach 50% of any of the thresholds in "a" through "c", above.	D2g	☐	☐
e. The proposed action may result in the combustion or thermal treatment of more than 1 ton of refuse per hour.	D2s	☐	☐
f. Other impacts: _____ _____		☐	☐

7. Impact on Plants and Animals

The proposed action may result in a loss of flora or fauna. (See Part 1. E.2. m.-q.) ☑ NO ☐ YES

If "Yes", answer questions a - j. If "No", move on to Section 8.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may cause reduction in population or loss of individuals of any threatened or endangered species, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2o	☐	☐
b. The proposed action may result in a reduction or degradation of any habitat used by any rare, threatened or endangered species, as listed by New York State or the federal government.	E2o	☐	☐
c. The proposed action may cause reduction in population, or loss of individuals, of any species of special concern or conservation need, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2p	☐	☐
d. The proposed action may result in a reduction or degradation of any habitat used by any species of special concern and conservation need, as listed by New York State or the Federal government.	E2p	☐	☐

e. The proposed action may diminish the capacity of a registered National Natural Landmark to support the biological community it was established to protect.	E3c	☐	☐
f. The proposed action may result in the removal of, or ground disturbance in, any portion of a designated significant natural community. Source: _____	E2n	☐	☐
g. The proposed action may substantially interfere with nesting/breeding, foraging, or over-wintering habitat for the predominant species that occupy or use the project site.	E2m	☐	☐
h. The proposed action requires the conversion of more than 10 acres of forest, grassland or any other regionally or locally important habitat. Habitat type & information source: _____ _____	E1b	☐	☐
i. Proposed action (commercial, industrial or recreational projects, only) involves use of herbicides or pesticides.	D2q	☐	☐
j. Other impacts: _____ _____		☐	☐

8. Impact on Agricultural Resources

The proposed action may impact agricultural resources. (See Part 1. E.3.a. and b.) ☑ NO ☐ YES

If "Yes", answer questions a - h. If "No", move on to Section 9.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System.	E2c, E3b	☐	☐
b. The proposed action may sever, cross or otherwise limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc).	E1a, Elb	☐	☐
c. The proposed action may result in the excavation or compaction of the soil profile of active agricultural land.	E3b	☐	☐
d. The proposed action may irreversibly convert agricultural land to non-agricultural uses, either more than 2.5 acres if located in an Agricultural District, or more than 10 acres if not within an Agricultural District.	E1b, E3a	☐	☐
e. The proposed action may disrupt or prevent installation of an agricultural land management system.	El a, E1b	☐	☐
f. The proposed action may result, directly or indirectly, in increased development potential or pressure on farmland.	C2c, C3, D2c, D2d	☐	☐
g. The proposed project is not consistent with the adopted municipal Farmland Protection Plan.	C2c	☐	☐
h. Other impacts: _____		☐	☐

9. Impact on Aesthetic Resources

The land use of the proposed action are obviously different from, or are in sharp contrast to, current land use patterns between the proposed project and a scenic or aesthetic resource. (Part 1. E.1.a, E.1.b, E.3.h.)

☑ NO ☐ YES

If "Yes", answer questions a - g. If "No", go to Section 10.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Proposed action may be visible from any officially designated federal, state, or local scenic or aesthetic resource.	E3h	☐	☐
b. The proposed action may result in the obstruction, elimination or significant screening of one or more officially designated scenic views.	E3h, C2b	☐	☐
c. The proposed action may be visible from publicly accessible vantage points: i. Seasonally (e.g., screened by summer foliage, but visible during other seasons) ii. Year round	E3h	 ☐ ☐	 ☐ ☐
d. The situation or activity in which viewers are engaged while viewing the proposed action is: i. Routine travel by residents, including travel to and from work ii. Recreational or tourism based activities	E3h E2q, E1c	 ☐ ☐	 ☐ ☐
e. The proposed action may cause a diminishment of the public enjoyment and appreciation of the designated aesthetic resource.	E3h	☐	☐
f. There are similar projects visible within the following distance of the proposed project: 0-1/2 mile ½ -3 mile 3-5 mile 5+ mile	D1a, E1a, D1f, D1g	☐	☐
g. Other impacts: _____ _____		☐	☐

10. Impact on Historic and Archeological Resources

The proposed action may occur in or adjacent to a historic or archaeological resource. (Part 1. E.3.e, f. and g.)

☑ NO ☐ YES

If "Yes", answer questions a - e. If "No", go to Section 11.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may occur wholly or partially within, or substantially contiguous to, any buildings, archaeological site or district which is listed on or has been nominated by the NYS Board of Historic Preservation for inclusion on the State or National Register of Historic Places.	E3e	☐	☐
b. The proposed action may occur wholly or partially within, or substantially contiguous to, an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory.	E3f	☐	☐
c. The proposed action may occur wholly or partially within, or substantially contiguous to, an archaeological site not included on the NY SHPO inventory. Source: _____	E3g	☐	☐

d. Other impacts: _____ _____		☐	☐
e. If any of the above (a-d) are answered "Moderate to large impact may occur", continue with the following questions to help support conclusions in Part 3:			
i. The proposed action may result in the destruction or alteration of all or part of the site or property.	E3e, E3g, E3f	☐	☐
ii. The proposed action may result in the alteration of the property's setting or integrity.	E3e, E3f, E3g, E1a, E1b	☐	☐
iii. The proposed action may result in the introduction of visual elements which are out of character with the site or property, or may alter its setting.	E3e, E3f, E3g, E3h, C2, C3	☐	☐

11. Impact on Open Space and Recreation

The proposed action may result in a loss of recreational opportunities or a reduction of an open space resource as designated in any adopted municipal open space plan.
(See Part 1. C.2.c, E.1.c., E.2.q.)
If "Yes", answer questions a - e. If "No", go to Section 12.

☑ NO ☐ YES

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in an impairment of natural functions, or "ecosystem services", provided by an undeveloped area, including but not limited to stormwater storage, nutrient cycling, wildlife habitat.	D2e, E1b E2h, E2m, E2o, E2n, E2p	☐	☐
b. The proposed action may result in the loss of a current or future recreational resource.	C2a, E1c, C2c, E2q	☐	☐
c. The proposed action may eliminate open space or recreational resource in an area with few such resources.	C2a, C2c E1c, E2q	☐	☐
d. The proposed action may result in loss of an area now used informally by the community as an open space resource.	C2c, E1c	☐	☐
e. Other impacts: _____ _____		☐	☐

12. Impact on Critical Environmental Areas

The proposed action may be located within or adjacent to a critical environmental area (CEA). (See Part 1. E.3.d)
If "Yes", answer questions a - c. If "No", go to Section 13.

☑ NO ☐ YES

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in a reduction in the quantity of the resource or characteristic which was the basis for designation of the CEA.	E3d	☐	☐
b. The proposed action may result in a reduction in the quality of the resource or characteristic which was the basis for designation of the CEA.	E3d	☐	☐
c. Other impacts: _____ _____		☐	☐

13. Impact on Transportation

The proposed action may result in a change to existing transportation systems. (See Part 1. D.2.j) ☑ NO ☐ YES

If "Yes", answer questions a - f. If "No", go to Section 14.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Projected traffic increase may exceed capacity of existing road network.	D2j	☐	☐
b. The proposed action may result in the construction of paved parking area for 500 or more vehicles.	D2j	☐	☐
c. The proposed action will degrade existing transit access.	D2j	☐	☐
d. The proposed action will degrade existing pedestrian or bicycle accommodations.	D2j	☐	☐
e. The proposed action may alter the present pattern of movement of people or goods.	D2j	☐	☐
f. Other impacts: _____		☐	☐

14. Impact on Energy

The proposed action may cause an increase in the use of any form of energy. (See Part 1. D.2.k) ☑ NO ☐ YES

If "Yes", answer questions a - e. If "No", go to Section 15.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action will require a new, or an upgrade to an existing, substation.	D2k	☐	☐
b. The proposed action will require the creation or extension of an energy transmission or supply system to serve more than 50 single or two-family residences or to serve a commercial or industrial use.	D1f, D1q, D2k	☐	☐
c. The proposed action may utilize more than 2,500 MWhrs per year of electricity.	D2k	☐	☐
d. The proposed action may involve heating and/or cooling of more than 100,000 square feet of building area when completed.	D1g	☐	☐
e. Other Impacts: _____			

15. Impact on Noise, Odor, and Light

The proposed action may result in an increase in noise, odors, or outdoor lighting. (See Part 1. D.2.m., n., and o.) ☑ NO ☐ YES

If "Yes", answer questions a - f. If "No", go to Section 16.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may produce sound above noise levels established by local regulation.	D2m	☐	☐
b. The proposed action may result in blasting within 1,500 feet of any residence, hospital, school, licensed day care center, or nursing home.	D2m, E1d	☐	☐
c. The proposed action may result in routine odors for more than one hour per day.	D2o	☐	☐

d. The proposed action may result in light shining onto adjoining properties.	D2n	☐	☐
e. The proposed action may result in lighting creating sky-glow brighter than existing area conditions.	D2n, E1a	☐	☐
f. Other impacts: _____ _____		☐	☐

16. Impact on Human Health

The proposed action may have an impact on human health from exposure to new or existing sources of contaminants. (See Part 1.D.2.q., E.1. d. f. g. and h.) ☑ NO ☐ YES

If "Yes", answer questions a - m. If "No", go to Section 17.

	Relevant Part I Question(s)	No,or small impact may cccur	Moderate to large impact may occur
a. The proposed action is located within 1500 feet of a school, hospital, licensed day care center, group home, nursing home or retirement community.	E1d	☐	☐
b. The site of the proposed action is currently undergoing remediation.	E1g, E1h	☐	☐
c. There is a completed emergency spill remediation, or a completed environmental site remediation on, or adjacent to, the site of the proposed action.	E1g, E1h	☐	☐
d. The site of the action is subject to an institutional control limiting the use of the property (e.g., easement or deed restriction).	E1g, E1h	☐	☐
e. The proposed action may affect institutional control measures that were put in place to ensure that the site remains protective of the environment and human health.	E1g, E1h	☐	☐
f. The proposed action has adequate control measures in place to ensure that future generation, treatment and/or disposal of hazardous wastes will be protective of the environment and human health.	D2t	☐	☐
g. The proposed action involves construction or modification of a solid waste management facility.	D2q, E1f	☐	☐
h. The proposed action may result in the unearthing of solid or hazardous waste.	D2q, E1f	☐	☐
i. The proposed action may result in an increase in the rate of disposal, or processing, of solid waste.	D2r, D2s	☐	☐
j. The proposed action may result in excavation or other disturbance within 2000 feet of a site used for the disposal of solid or hazardous waste.	E1f, E1g E1h	☐	☐
k. The proposed action may result in the migration of explosive gases from a landfill site to adjacent off site structures.	E1f, E1g	☐	☐
l. The proposed action may result in the release of contaminated leachate from the project site.	D2s, E1f, D2r	☐	☐
m. Other impacts: _____ _____			

17. Consistency with Community Plans

The proposed action is not consistent with adopted land use plans. ☑ NO ☐ YES
(See Part 1. C.1, C.2. and C.3.)
If "Yes", answer questions a - h. If "No", go to Section 18.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action's land use components may be different from, or in sharp contrast to, current surrounding land use pattern(s).	C2, C3, D1a E1a, E1b	☐	☐
b. The proposed action will cause the permanent population of the city, town or village in which the project is located to grow by more than 5%.	C2	☐	☐
c. The proposed action is inconsistent with local land use plans or zoning regulations.	C2, C2, C3	☐	☐
d. The proposed action is inconsistent with any County plans, or other regional land use plans.	C2, C2	☐	☐
e. The proposed action may cause a change in the density of development that is not supported by existing infrastructure or is distant from existing infrastructure.	C3, D1c, D1d, D1f, D1d, Elb	☐	☐
f. The proposed action is located in an area characterized by low density development that will require new or expanded public infrastructure.	C4, D2c, D2d D2j	☐	☐
g. The proposed action may induce secondary development impacts (e.g., residential or commercial development not included in the proposed action)	C2a	☐	☐
h. Other: _____ _____		☐	☐

18. Consistency with Community Character

The proposed project is inconsistent with the existing community character. ☑ NO ☐ YES
(See Part 1. C.2, C.3, D.2, E.3)
If "Yes", answer questions a - g. If "No", proceed to Part 3.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may replace or eliminate existing facilities, structures, or areas of historic importance to the community.	E3e, E3f, E3g	☐	☐
b. The proposed action may create a demand for additional community services (e.g. schools, police and fire)	C4	☐	☐
c. The proposed action may displace affordable or low-income housing in an area where there is a shortage of such housing.	C2, C3, D1f D1g, E1a	☐	☐
d. The proposed action may interfere with the use or enjoyment of officially recognized or designated public resources.	C2, E3	☐	☐
e. The proposed action is inconsistent with the predominant architectural scale and character.	C2, C3	☐	☐
f. Proposed action is inconsistent with the character of the existing natural landscape.	C2, C3 E1a, E1b E2g, E2h	☐	☐
g. Other impacts: _____ _____		☐	☐

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ATTACHMENT C

SEQRA EAF PART 2

REASONS SUPPORTING DETERMINATION OF SIGNIFICANCE

SHORELINE STABILIZATION AND ROAD IMPROVEMENTS – OAK BEACH

The Governor's Office of Storm Recovery ("GOSR"), an office of New York State Homes and Community Renewal's Housing Trust Fund Corporation ("HTFC"), has established Lead Agency status pursuant to the State Environmental Quality Review Act ("SEQRA") (ECL Sections 3-0301(1)(b), 3-0301(2)(m) and 8-0113 and 6 NYCRR Part 617) for the environmental review of the proposed Shoreline Stabilization and Road Improvements – Oak Beach (the "Proposed Action") in the Oak Beach, Town of Babylon, Suffolk County, New York. In accordance with SEQRA and its implementing regulations found at 6 NYCRR Part 617, GOSR has established itself as SEQRA lead agency. A full Environmental Assessment Form (EAF) Part 1 regarding the proposed action has been circulated for review and comment to interested and involved agencies. GOSR has evaluated the criteria found under 6 NYCRR 617.7(c), completed Parts 2 and 3 of the EAF, and determined that the proposed action would not result in significant environmental impacts. This memo is incorporated by reference into Part 3 of the EAF and serves as the rationale for GOSR's determination of significance.

Additional explanation is provided below for questions checked with "yes" on the FEAF. Also, in some cases additional explanation is needed where "no" is checked. Appendix A provides a set of figures that document presence or absence of resources. Attachments are provided including agency consultations that have been completed by GOSR to determine potential impacts and compliance with applicable laws.

A Coastal Consistency Form was completed and submitted to the Department of State DOS. DOS has no objection to the use of U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant – Disaster Recovery (CDBG-DR) funds for this financial assistance activity to the Town of Babylon for the Proposed Action (**Attachment** 1). The concurrence pertains to the federal financial assistance for this project only. If a federal permit or other form of federal agency authorization is required for the Proposed Action, DOS will conduct a separate review for those permit activities. In such a case, the applicant must forward a copy of the federal/ state joint application for authorization, a completed Federal Consistency Assessment Form (FCAF), project drawings and details and all other supporting information to DOS at the same time application is submitted to the federal agency from which the necessary authorization is requested.

1. Impact on Land

The Shoreline Stabilization and Road Improvements – Oak Beach project activities include strengthening the shoreline at the most critical points along Oak Beach's shoreline and raising Oak Beach Road is develop with residential neighborhoods. The depth to the water table in Oak Beach is shallow, Oak Beach is a barrier island. Soil boring logs from the project area encountered ground water at 6 feet below ground surface. The impacts from raising the road and shoreline stabilization will not impact shallow groundwater. Road raising actions will not increase the depth of the existing road or increase the imperious area within the project site. The shoreline stabilization structure will be constructed on the surface. A total of approximately 2,200 cubic yards of armor stone, and approximately 600 cubic yards of bedding stone will be utilized for the stabilization of the shoreline. Approximately 2,730 square feet of stone will be placed seaward of Mean High Water (MHW) and approximately 450 cubic yards of clean sand will be obtained from an approved upland location to be utilized as backfill.

The shoreline stabilization will be constructed on a sloped shoreline. The slope is shown on the design plan CP-1, **Attachment 2**. After construction the elevation will range from 2 to 9 feet above mean sea level (AMSL). The purpose of the stabilization structure is to stabilize the bank and reduce erosion.

The Proposed Action area is composed of sand. Creation of the bioswale on the north side of the roadway will require the removal of sand to be used in the regrading of the area immediately north of the bioswale and approximately 450 cubic yards of clean sand backfill will be used on the south side of the roadway, landward of the shoreline stabilization structures, to create a planted stabilization berm. None of the excavated material will be removed.

Construction is estimated to be completed in less than one year and will decrease erosion after construction is completed. All activities will occur in single phase. Silt fence will be installed around the area of disturbance. All machinery will be stored landward of the delineated wetland boundary. During construction erosion control measures will be implemented using Best Management Practices (BMP). Additionally, all permit conditions will be implemented, which will require erosion control measures. Following construction, the area will be vegetated with native vegetation resistant to flooding and salt water.

As shown in Appendix A, figures, the project is not located in in a Coastal Erosion Area.

The project activities will be completed in accordance with BMPs and all applicable federal, state, and local permits and their requirements and conditions, which will be obtained prior to commencing work. Thus, the individual projects will incorporate mitigative measures and BMPs to reduce construction-related pollutants. Due to these reasons, impacts on land were determined to be minor.

Land surface modifications will be contained to areas of preexisting disturbance at the site. Overall, the project will result in minor adverse short-term impacts to land resulting from site-preparation and construction activities. Beneficial long-term impacts to the landscape will occur as a result of the shoreline stabilization. Therefore, the proposed action will not result in significant impacts on land

3. Impacts to Surface Water

The proposed action does not create a new surface water body or increase or decrease the surface area of any body of water. The construction does not involve dredging. The project is on the northern shore of the Fire Island Inlet. The Fire Island Inlet and Shores Westerly to Jones Inlet provides navigation and shore protection benefits through the periodic maintenance dredging of Fire Island Inlet.

The proposed action will result in permanent impacts 0.78 acres of NYSDEC-mapped tidal wetlands. All work with be completed in accordance with wetland measures described in the local, state and federal permits. Final requirements of the project to avoid, minimize, or mitigate potential impacts to wetlands will be determined by the permitting agency approving the project. No work can begin until permits are obtained. If more than one acre of land is disturbed, the Town will be required to apply for coverage under NYSDEC SPDES General Permit for Stormwater Discharges from Construction Activity Permit No. GP-0-15-002.

The Proposed Action may result in short-term increase in delivery of sediment to adjacent waters, creating temporary increases in turbidity. BMPs will be employed to ensure that delivery of sediment to nearby waters will be prevented or minimized. Any disturbed sediments likely settled out quickly or were dissipated by the tides. Additionally, all work will be completed in accordance with permit conditions, which will be protective of surface water and wetlands.

The Proposed Action will not include surface water withdraws or outfalls or cause soil erosion, or otherwise create a source of stormwater discharge that may lead to siltation or other degradation of receiving water bodies. The Proposed Action will decrease erosion by stabilizing the shore and thereby increasing water quality. No pesticide or herbicides will be used and there is no construction of new, or expansion of existing, wastewater treatment facilities.

The Proposed Action will not result in significant impacts on surface water

4. Impacts on Groundwater

The Project site is located within an Environmental Protection Agency (EPA) Nassau/Suffolk Sole aquifer (see **Appendix A**). The project activities include road raising, drainage improvements, and repair and reconstruction of shoreline stabilization infrastructure in developed residential neighborhoods where water services have already been established, and no effect is anticipated on sole source aquifers. The Proposed Action was reviewed according to the non-housing project activity initial screen criteria form included in **Attachment 3**. A formal sole source aquifer review and consultation with the EPA is not required. The Proposed Action will not result in significant impacts on groundwater.

5. Impact on Flooding

The shoreline stabilization area is located in Zone AE with a base flood elevation of 8 feet according to Flood Insurance Rate Map (FIRM) 36103C0868H, effective date September 25, 2009 and in a NYSDEC tidal wetland, littoral zone. The FIRM and tidal wetland map are included in Appendix A. The Proposed Action will result in permanent impacts to 0.78 acres of 100-Year Floodplain and 0.78 acres of NYSDEC-mapped tidal wetlands.

The Proposed Action will result in impacts to 100-year floodplain and wetlands and will require an individual Section 404 permit under the Clean Water Act, Town of Babylon Coastal Erosion Hazard Area permit, New York State Department of Environmental Conservation (NYS DEC) Tidal Wetlands Permit (ECL Article 25), NYSDEC Protection of Waters (ECL Article 15 and Excavation and Fill in Navigable Waters) and Local Floodplain Development Permit.

No structural footprints will be expanded, and a small portion of the floodplain will be impacted, 0.78 acres, and there is no encroachment into any existing wetland and waterbody. The Proposed Action will not have an impact on floodplain values. Therefore, no direct or indirect adverse impacts to the floodplain are anticipated as a result of the Proposed Action, and the Proposed Action will not result in significant impacts on flooding.

The Proposed Action seeks to reduce flooding to residences and the infrastructure on which they rely, including Oak Beach Road, water systems, and public facilities. The Proposed Action will fund improvements to Oak Beach Road to reduce on-street flooding and improve drainage, particularly through the incorporation of green infrastructure. Improvements to the roadway include altering the pitch of the road, utilization of the northern vegetated flank as a bioswale, and optimization of Oak Beach Park at the easterly start of the roadway for the infiltration of excess stormwater. The project is likely to reduce flooding in the area, help protect properties from exposure to tidal flows, reduce the vulnerability of assets by increasing the resiliency of the community during/after future flooding events.

7. Impact on Plants and Animals

Impacts to vegetation and wildlife will be minor and short-term. Wildlife expected to occur within the vicinity of the project area includes mobile species that can easily avoid the project area during construction. The Proposed Action will not adversely affect protected species or habitats.

Federal and State threatened and endangered species have the potential to be located within the project area and the project area is located adjacent to submerged aquatic vegetation (SAV) and essential fish habitat (EFH). Final requirements of the project to avoid, minimize, or mitigate potential impacts to these species and associated habitat and SAV will be determined by the lead permitting agency approving the project. No work can begin until permits are obtained. Additionally, during agency consultation protective measures were identified that will protect these species and associated habitat as summarized below.

New York Natural Heritage Program

The New York Natural Heritage Program (NYNHP) identified following endangered species within 0.25 mile of the project site:

- Piping Plover (Charadrius melodus)
- Short-eared Owl (Asio flammeus)
- Black Rail (Laterallus jamaicensis)

And the following threatened species were identified within 0.25 mile of the project site:

- Least Tern (Sternula antillarum)
- Northern Harrier (Circus cyaneus) (**See Attachment 4**).

There is the potential for the Piping Plover and Least Tern to be present during breeding season. The Town of Babylon completes periodic surveys for the species and none have been identified within the project area. Final requirements of the project to avoid, minimize, or mitigate potential impacts to these species will be determined by the lead permitting agency approving the project. No work can begin until permits are obtained. Construction timeframe restrictions will be included in permit conditions to limit any affects to the species. Field surveys of the project site may be necessary to determine the status of a species at the site before construction because suitable habitat for the Piping Plover and Least Tern are present within the project area.

U.S Fish and Wildlife (USFWS)

The USFWS online review process, completed in August 1, 2018, identified the following federally-listed species as having the potential to occur within the vicinity of the Proposed Action:

- Piping plover (*Charadrius melodus*) - threatened,
- Roseate tern (*Sterna dougalli*) - endangered,
- Rufa red knot (*Calidris canutus rufa*)– threatened,
- Northern long-eared bat (*Myotis septentrionalis*) - threatened,
- Sandplain gerardia (*Agalinis acuta*) - endangered, and
- Seabeach amaranth (*Amaranthus pumilus*) - threatened.

Migratory bird species were also identified. The official species list for the Proposed Action indicated that there is no critical habitat in the Project site (see **Attachment 5**). Consultation was initiated with the USFWS on July 10, 2018 with a letter of determination that the Proposed Action "Not Likely to Adversely Effect" Piping plover, Roseate tern, Rufa red knot, Sandplain gerardia and Seabeach amaranth and "No Effect" for the Northern long-eared bat.

In its October 16, 2018 response, the USFWS stated that, "Protective measures for piping plover and red knot include a time-of-year restriction of April 1 to September 1 for piping plover, and a 300-meter buffer zone between project activities and red knot from September 1 to November 30." Final requirements of the project to avoid, minimize, or mitigate potential impacts to these species will be determined by the lead permitting agency approving the project. No work can begin until permits are obtained. Construction timeframe restrictions will be included in permit conditions to avoid any affects to the species.

The Proposed Action will result in the loss of ±0.18 acres of open shoreline due to the placement of the stone revetment. The Proposed Action is not anticipated to result in the loss of any vegetated habitat and includes the revegetation of beach grass within the upland portions of the project site; revegetation is proposed landward of the revetment and seaward of the roadway. Under existing conditions, the Proposed Action area is subject to frequent disturbance due to the adjacent roadway and variable wave action from boat traffic and storm events. These events are causing increased erosion to the area. Due to these conditions the project area is not expected to provide high quality habitat. The Proposed Action is designed to reduce erosion along the shoreline and is not anticipated to impact the erosion along the neighboring properties or seaward of the project site.

Submerged Aquatic Vegetation (SAV) and Essential Fish Habitat (EFH)
GOSR submitted an abbreviated consultation to the National Oceanic Administration (NOAA) National Marine Fisheries (NMFS) Service on August 15, 2018 regarding the presence of EFH and SAV adjacent to the project area. NMFS responded that:

1. No in-water work from 1/1 to 5/31 of each year to minimize adverse effects to winter flounder early life stages and their EFH. This only applies to work conducted below the mean low water line.

2. If any work is water-based (equipment / vessels brought in via water), equipment and vessels should only transit at periods of high tide to minimize potential for scour of submerged aquatic vegetation (SAV) beds in the project area, and equipment / vessels should not be staged in SAV beds.

3. BMPs should be employed to ensure turbidity is minimized in the water.

4. Efforts should be made to ensure no construction materials or debris enter the waterway.

NMFS Listed Species in the Action Area
There are four species of sea turtles and one species of fish under the jurisdiction of NMFS that have the potential to occur in the action area. These species include:

Sea Turtles
Loggerhead Turtle (*Caretta caretta*) (76 FR 58868; Recovery plan: NMFS & USFWS 2008)
Kemp's Ridley Turtle (*Lepidochelys kempii*) (35 FR 18319; Recovery plan: NMFS et al. 2011)
Green Turtle (*Chelonia mydas*) (81 FR 20057; Recovery plan: NMFS & USFWS 1991)
Leatherback Turtle (*Dermochelys coriacea*) (35 FR 8491; Recovery plan: NMFS & USFWS 1992)

Fish
Atlantic Sturgeon (*Acipenser oxyrinchus oxyrinchus*) (77 FR 5880 and 77 FR 5914)

Sea turtles are not likely to occur in the project area except possibly as occasional seasonal transient individuals, and their presence in shallow waters adjacent to the shoreline such as the project area is unlikely. There is no nesting activity in the region, and the turtles are not year-round residents. Adverse impacts to sea turtles are not anticipated as a result of the project.

Sturgeon are not likely to be present in the intertidal and shallow water depths within the project area. Seasonal transient sub-adults and adults are highly mobile and could easily avoid the project area during construction. Adverse impacts to sturgeon are not anticipated as a result of project activities.

Based on the analysis that all effects of the Proposed Action will be insignificant and/or discountable, GOSR has determined that the Proposed Action will not affect any listed species or critical habitat under NMFS jurisdiction. GOSR used the best scientific and commercial data available to complete this analysis.

10. Impact on Historic and Archeological Resources

Consultation with the State Historic Preservation Office (SHPO) in accordance with Section 106 of the National Historic Preservation Act of 1966 has determined that no historic properties will be affected by this undertaking (**Attachment 6**). GOSR consulted with Shinnecock Nation Historic Preservation Office. No response was received.

Summary

Final requirements of the project to avoid, minimize, or mitigate potential impacts to the species and associated habitat and SAV discussed above will be determined by the lead permitting agency approving the project. No work can begin until permits are obtained. Permit conditions will ensure that there are no impacts to plants and animals with the project area.

The Proposed Action will result in the loss of ±0.18 acre of open shoreline due to the placement of the stone revetment and 0.78 acre of wetlands. The Proposed Action is not anticipated to result in the loss of any vegetated habitat and includes the revegetation of beach grass within the upland portions of the project site; revegetation is proposed landward of the revetment and seaward of the roadway. Under existing conditions, the Proposed Action area is subject to frequent disturbance due to the adjacent roadway and variable wave action from boat traffic and storm events. These events are causing increased erosion to the area. Due to these conditions the project area is not expected to provide high quality habitat. The Proposed Action is designed to reduce erosion along the shoreline and is not anticipated to impact the erosion along the neighboring properties or seaward of the project site.

Full Environmental Assessment Form
Part 3 - Evaluation of the Magnitude and Importance of Project Impacts
and
Determination of Significance

Part 3 provides the reasons in support of the determination of significance. The lead agency must complete Part 3 for every question in Part 2 where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse environmental impact.

Based on the analysis in Part 3, the lead agency must decide whether to require an environmental impact statement to further assess the proposed action or whether available information is sufficient for the lead agency to conclude that the proposed action will not have a significant adverse environmental impact. By completing the certification on the next page, the lead agency can complete its determination of significance.

Reasons Supporting This Determination:
To complete this section:

- Identify the impact based on the Part 2 responses and describe its magnitude. Magnitude considers factors such as severity, size or extent of an impact.
- Assess the importance of the impact. Importance relates to the geographic scope, duration, probability of the impact occurring, number of people affected by the impact and any additional environmental consequences if the impact were to occur.
- The assessment should take into consideration any design element or project changes.
- Repeat this process for each Part 2 question where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse environmental impact.
- Provide the reason(s) why the impact may, or will not, result in a significant adverse environmental impact
- For Conditional Negative Declarations identify the specific condition(s) imposed that will modify the proposed action so that no significant adverse environmental impacts will result.
- Attach additional sheets, as needed.

Please see the memo attached to Part 2 of this EAF and is incorporated by reference into this Part 3 and serves as the rationale for GOSR's determination of significance.

Determination of Significance - Type 1 and Unlisted Actions

SEQR Status: ☑ Type 1 ☐ Unlisted

Identify portions of EAF completed for this Project: ☑ Part 1 ☑ Part 2 ☑ Part 3

Upon review of the information recorded on this EAF, as noted, plus this additional support information

_____

_____

_____

and considering both the magnitude and importance of each identified potential impact, it is the conclusion of the _____ as lead agency that:

☑ A. This project will result in no significant adverse impacts on the environment, and, therefore, an environmental impact statement need not be prepared. Accordingly, this negative declaration is issued.

☐ B. Although this project could have a significant adverse impact on the environment, that impact will be avoided or substantially mitigated because of the following conditions which will be required by the lead agency:

_____

_____

_____

_____

There will, therefore, be no significant adverse impacts from the project as conditioned, and, therefore, this conditioned negative declaration is issued. A conditioned negative declaration may be used only for UNLISTED actions (see 6 NYCRR 617.d).

☐ C. This Project may result in one or more significant adverse impacts on the environment, and an environmental impact statement must be prepared to further assess the impact(s) and possible mitigation and to explore alternatives to avoid or reduce those impacts. Accordingly, this positive declaration is issued.

Name of Action: Shoreline Stabilization and Road Improvements – Oak Beach Project

Name of Lead Agency: Governor's Office of Storm Recovery

Name of Responsible Officer in Lead Agency: Matt Accardi

Title of Responsible Officer: Certifying Officer, Assistant General Counsel

Signature of Responsible Officer in Lead Agency: Date: November 6, 2018

Signature of Preparer (if different from Responsible Officer) Date:

For Further Information:

Contact Person: Matt Accardi

Address: 25 Beaver Street, 5th Floor, New York, New York, 10004

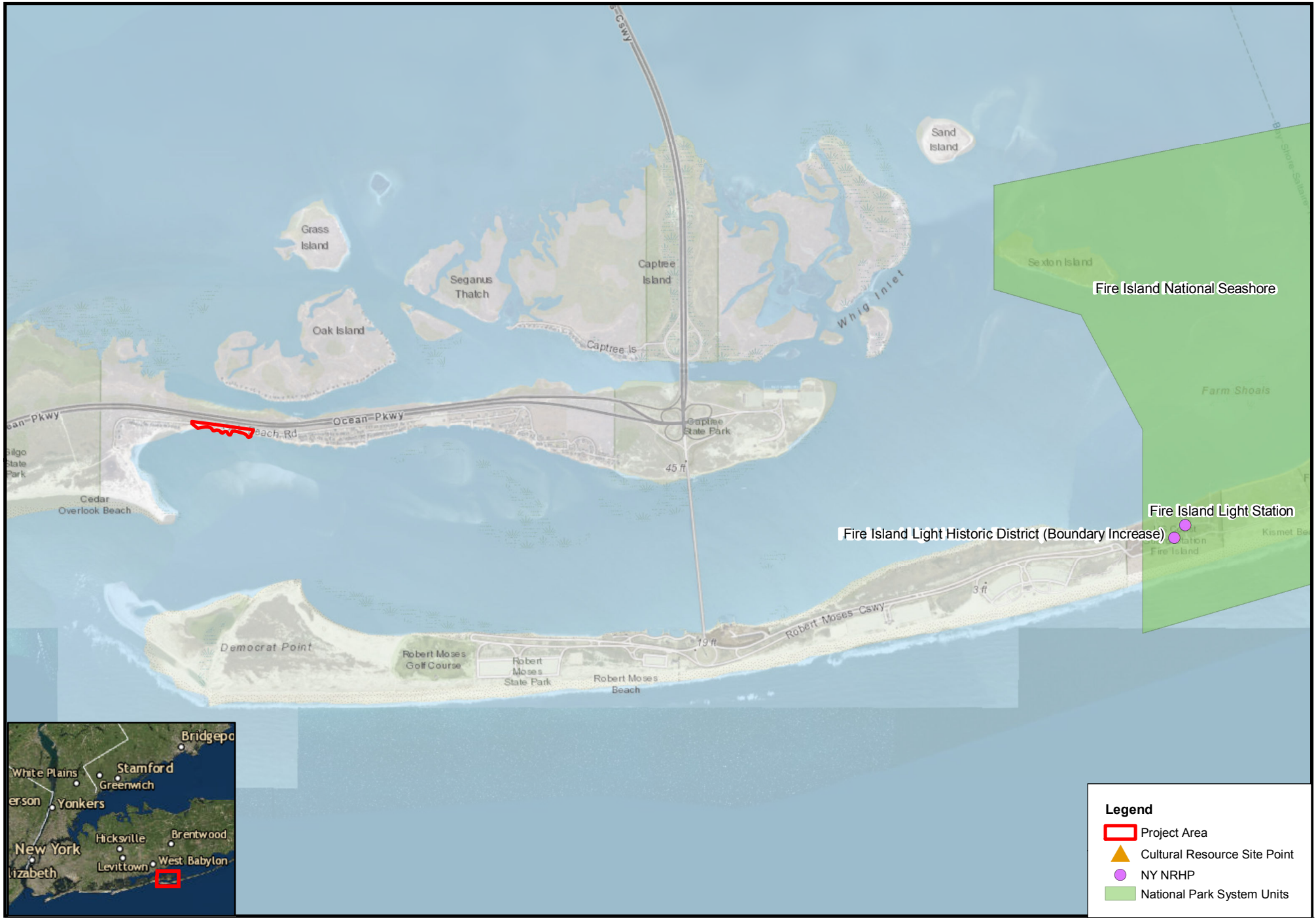
Telephone Number: (212) 480-6265

E-mail: Matt.Accardi@stormrecovery.ny.gov

For Type 1 Actions and Conditioned Negative Declarations, a copy of this Notice is sent to:

Chief Executive Officer of the political subdivision in which the action will be principally located (e.g., Town / City / Village of)
Other involved agencies (if any)
Applicant (if any)
Environmental Notice Bulletin: http://www.dec.ny.gov/enb/enb.html

PRINT FULL FORM



Oak Beach Shoreline Stabilization & Roadway Improvements
Town of Babylon, Suffolk County, New York

Data Sources: Esri Topographic and World Imagery Basemap, NYOPDIG, NYDEC, USGS, USFWS, FEMA, NYC MapPluto, EPA OAR-OAQPS, NYS GIS Clearinghouse

Governor's Office of Storm Recovery

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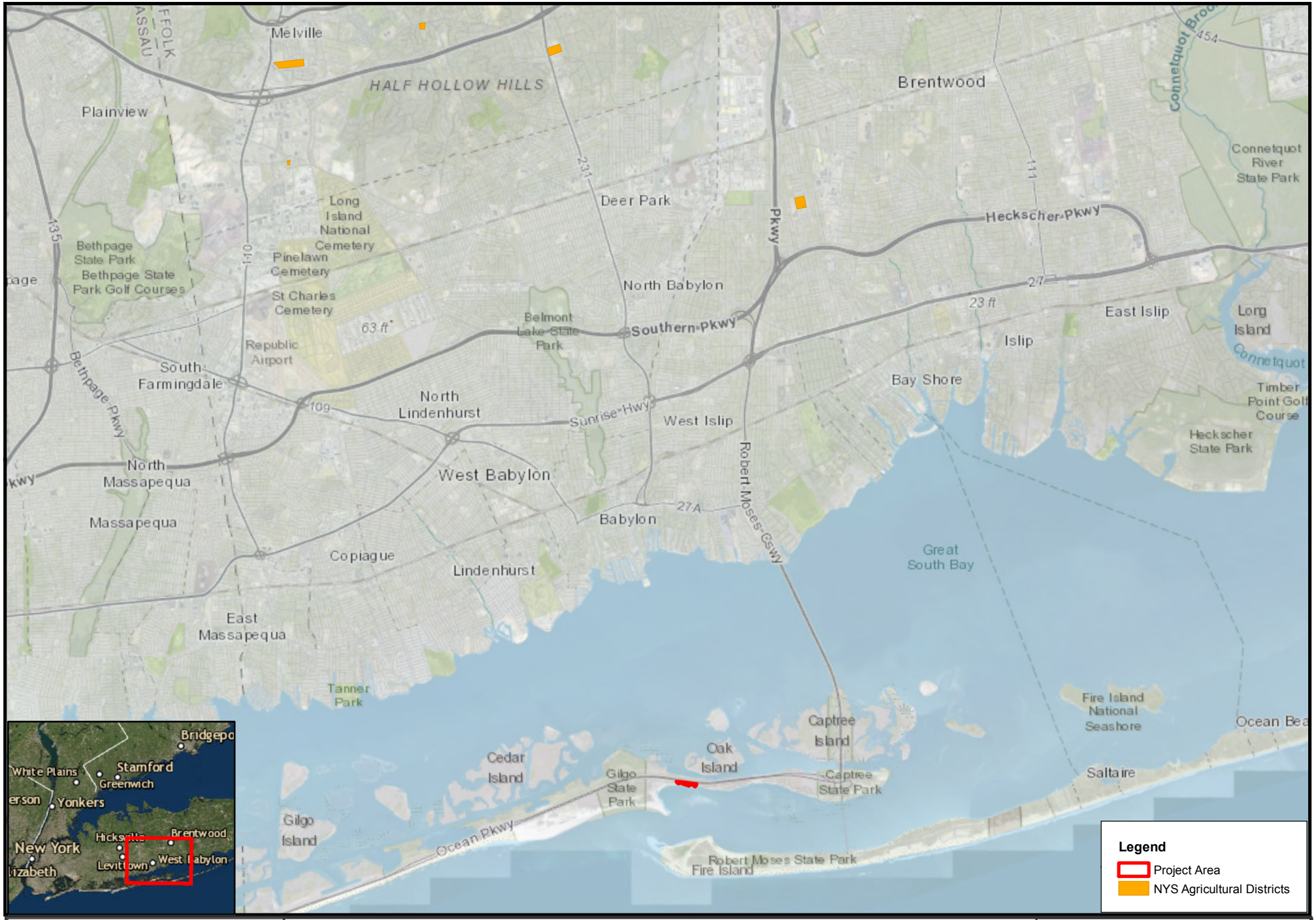

0 1.25 2.5 Miles

Oak Beach Shoreline Stabilization & Roadway Improvements
Town of Babylon, Suffolk County, New York

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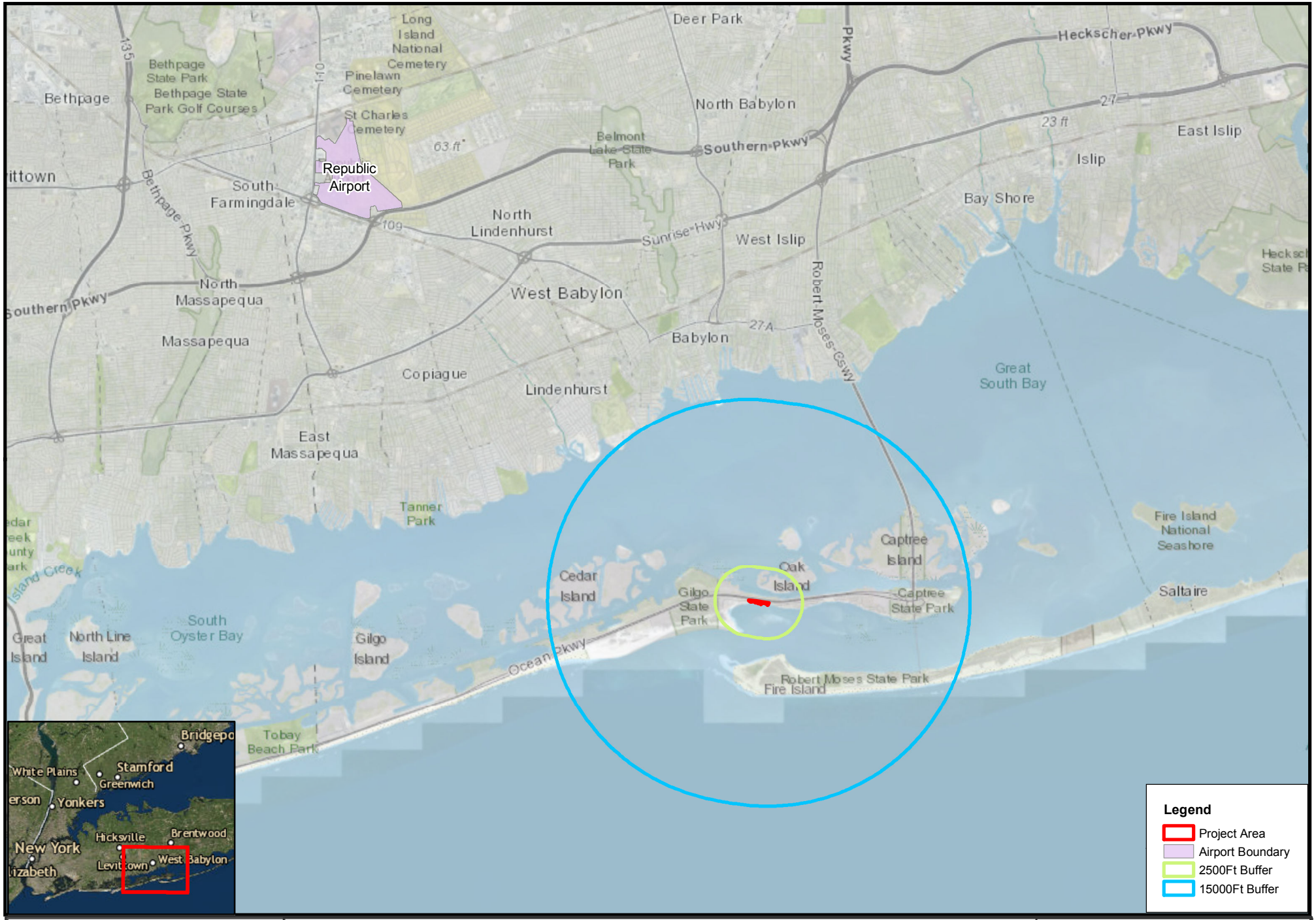

0 1.25 2.5 Miles

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0 0.05 0.1 Miles

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0 0.1 0.2 Miles

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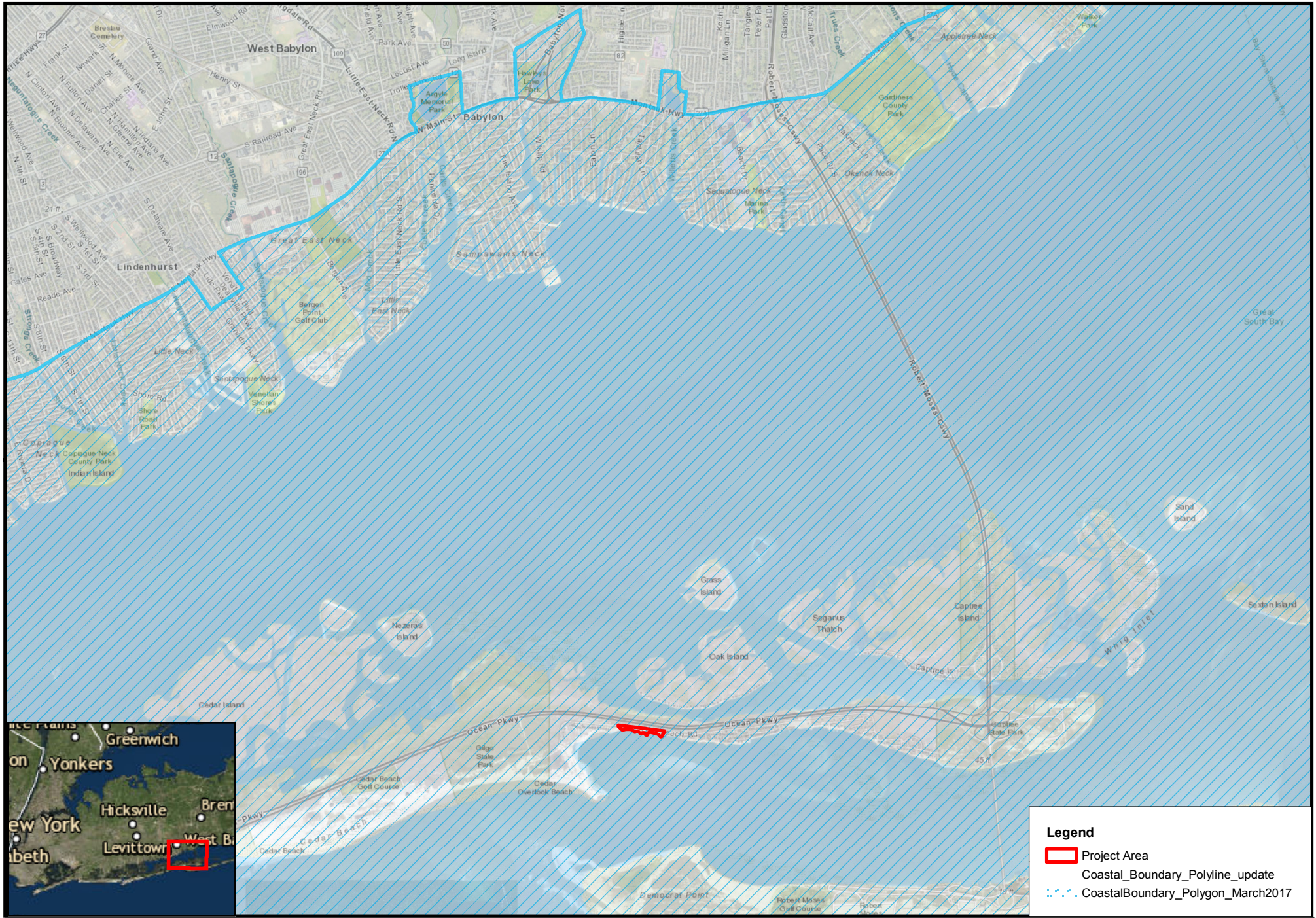

0 0.5 1 Miles

Oak Beach Shoreline Stabilization & Roadway Improvements
Town of Babylon, Suffolk County, New York

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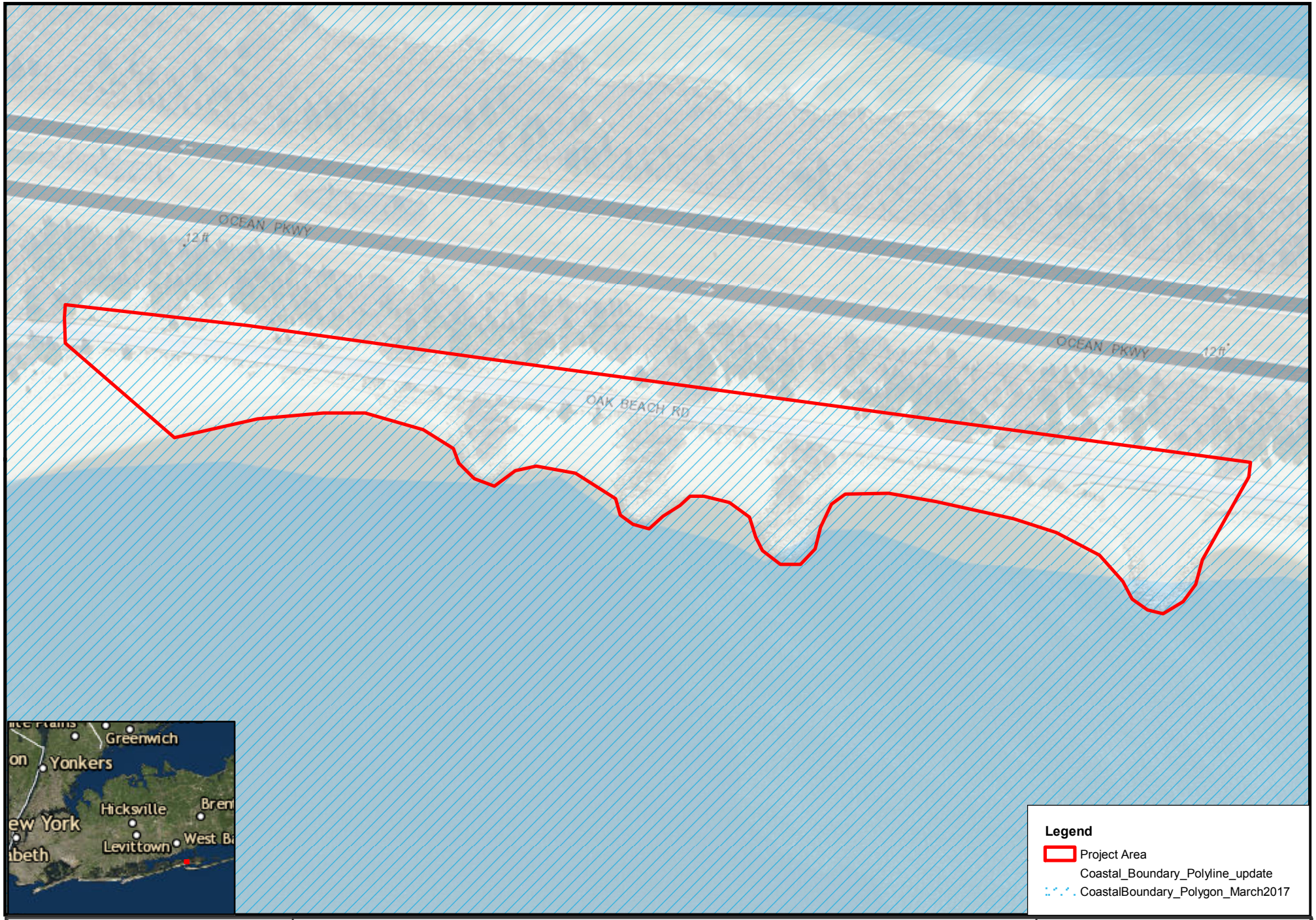

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Oak Beach Shoreline Stabilization & Roadway Improvements
Town of Babylon, Suffolk County, New York

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0 0.025 0.05 Miles

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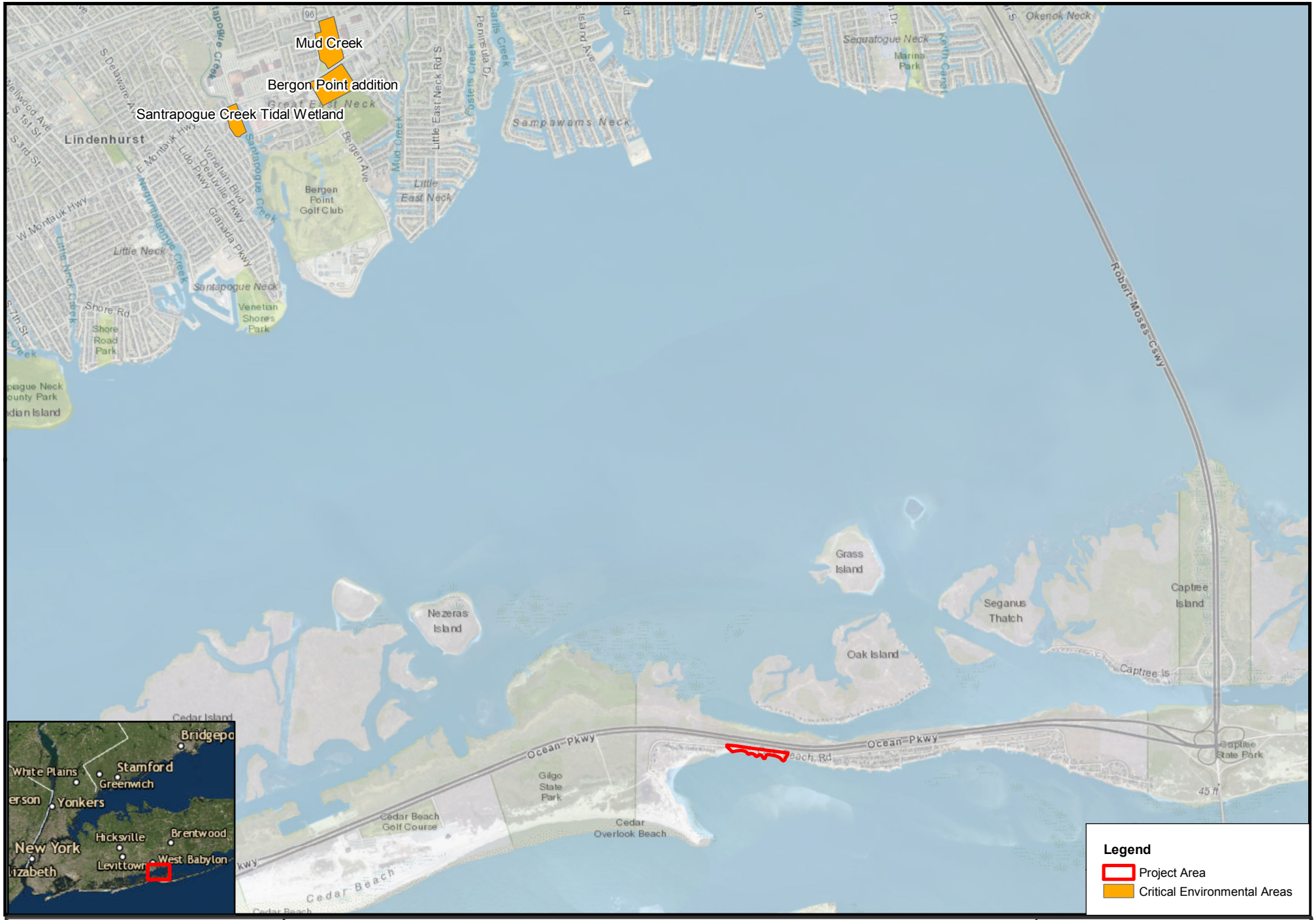

0 0.5 1 Miles

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Legend

Project Area

Effective FEMA Floodplain (DFIRM)

- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- A
- AE
- AO
- VE
- OPEN WATER
- X

0 0.025 0.05 Miles

Oak Beach Shoreline Stabilization & Roadway Improvements
Town of Babylon, Suffolk County, New York

Data Sources: Esri Topographic and World Imagery Basemap, NYOPDIG, NYDEC, USGS, USFWS, FEMA, NYC MapPluto, EPA OAR-OAQPS, NYS GIS Clearinghouse

Governor's Office of Storm Recovery

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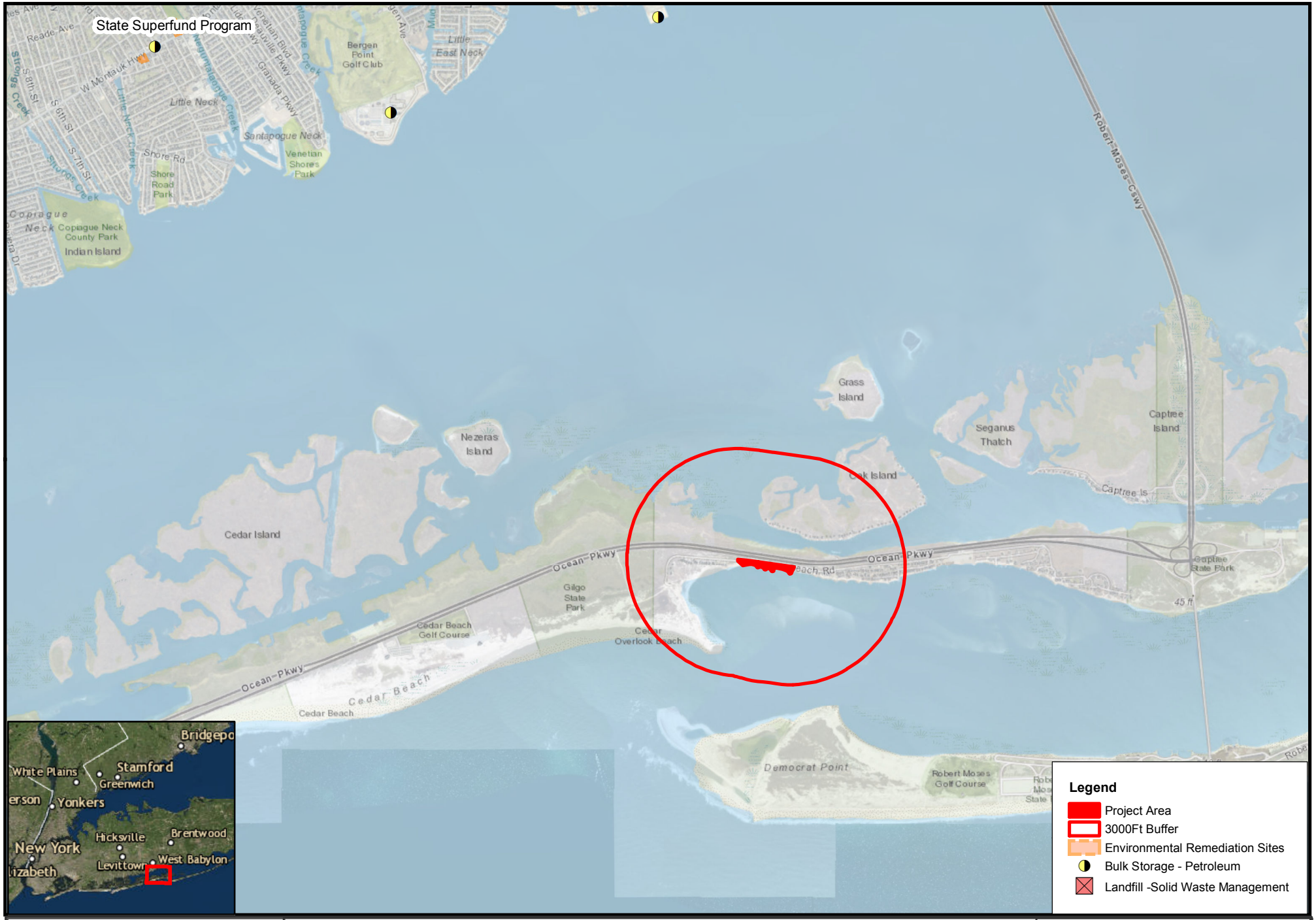

0 0.5 1 Miles

Oak Beach Shoreline Stabilization & Roadway Improvements
Town of Babylon, Suffolk County, New York

Data Sources: Esri Topographic and World Imagery Basemap, NYOPDIG, NYDEC, USGS, USFWS, FEMA, NYC MapPluto, EPA OAR-OAQPS, NYS GIS Clearinghouse

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FEMA data uses NAVD88*

0 0.125 0.25 Miles

Oak Beach Shoreline Stabilization & Roadway Improvements
Town of Babylon, Suffolk County, New York

Data Sources: Esri Topographic and World Imagery Basemap, NYOPDIG, NYDEC, USGS, USFWS, FEMA, NYC MapPluto, EPA OAR-OAQPS, NYS GIS Clearinghouse

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FEMA data uses NAVD88*

0 0.05 0.1 Miles

Oak Beach Shoreline Stabilization & Roadway Improvements
Town of Babylon, Suffolk County, New York

Data Sources: Esri Topographic and World Imagery Basemap, NYOPDIG, NYDEC, USGS, USFWS, FEMA, NYC MapPluto, EPA OAR-OAQPS, NYS GIS Clearinghouse

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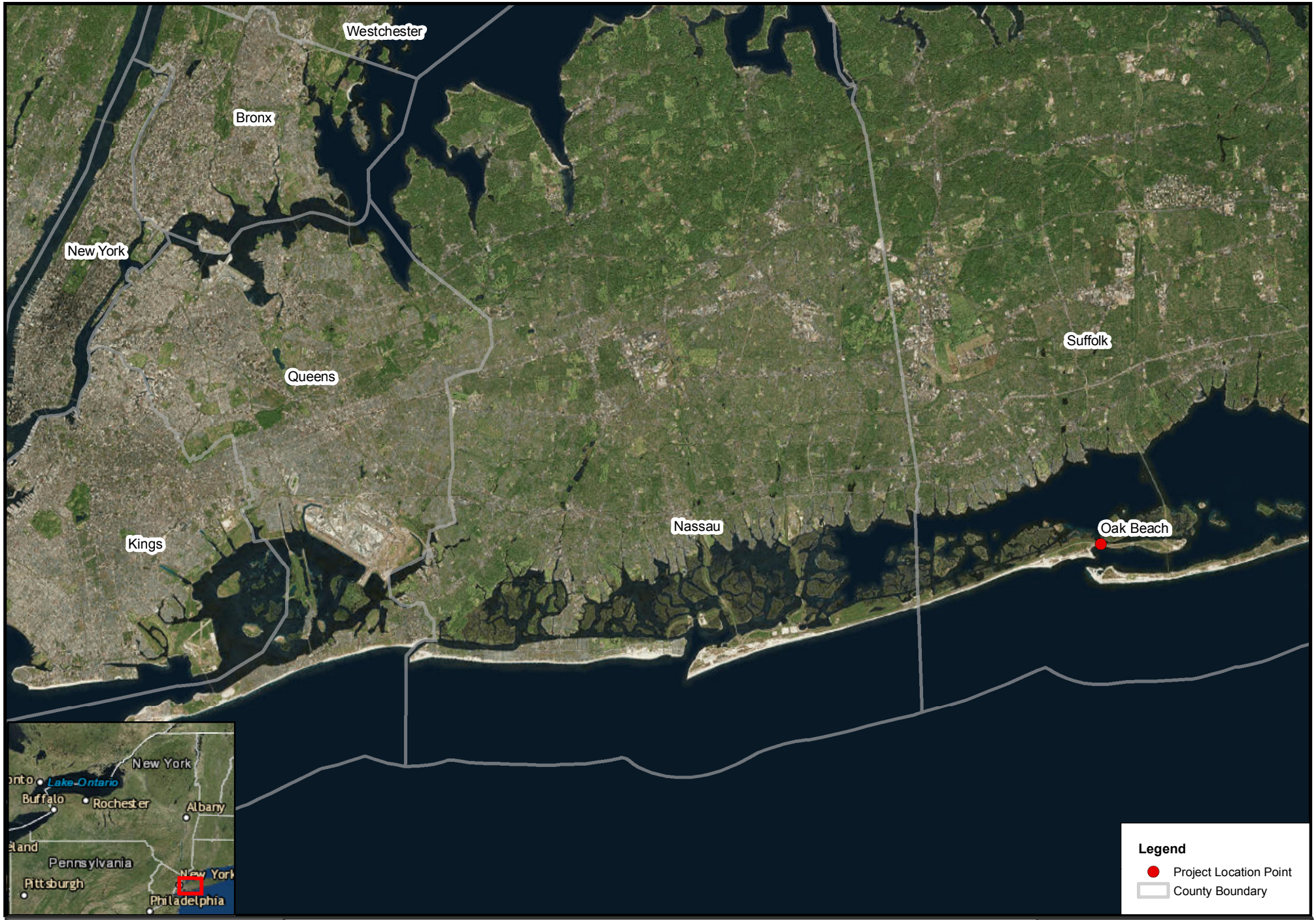

0 3.25 6.5 Miles

Oak Beach Shoreline Stabilization & Roadway Improvements
Town of Babylon, Suffolk County, New York

Data Sources: Esri Topographic and World Imagery Basemap, NYOPDIG, NYDEC, USGS, USFWS, FEMA, NYC MapPluto, EPA OAR-OAQPS, NYS GIS Clearinghouse

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FEMA data uses NAVD88*

0 0.025 0.05 Miles

Oak Beach Shoreline Stabilization & Roadway Improvements
Town of Babylon, Suffolk County, New York

Data Sources: Esri Topographic and World Imagery Basemap, NYOPDIG, NYDEC, USGS, USFWS, FEMA, NYC MapPluto, EPA OAR-OAQPS, NYS GIS Clearinghouse

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FEMA data uses NAVD88*

0 0.025 0.05 Miles

Oak Beach Shoreline Stabilization & Roadway Improvements
Town of Babylon, Suffolk County, New York

Data Sources: Esri Topographic and World Imagery Basemap, NYOPDIG, NYDEC, USGS, USFWS, FEMA, NYC MapPluto, EPA OAR-OAQPS, NYS GIS Clearinghouse

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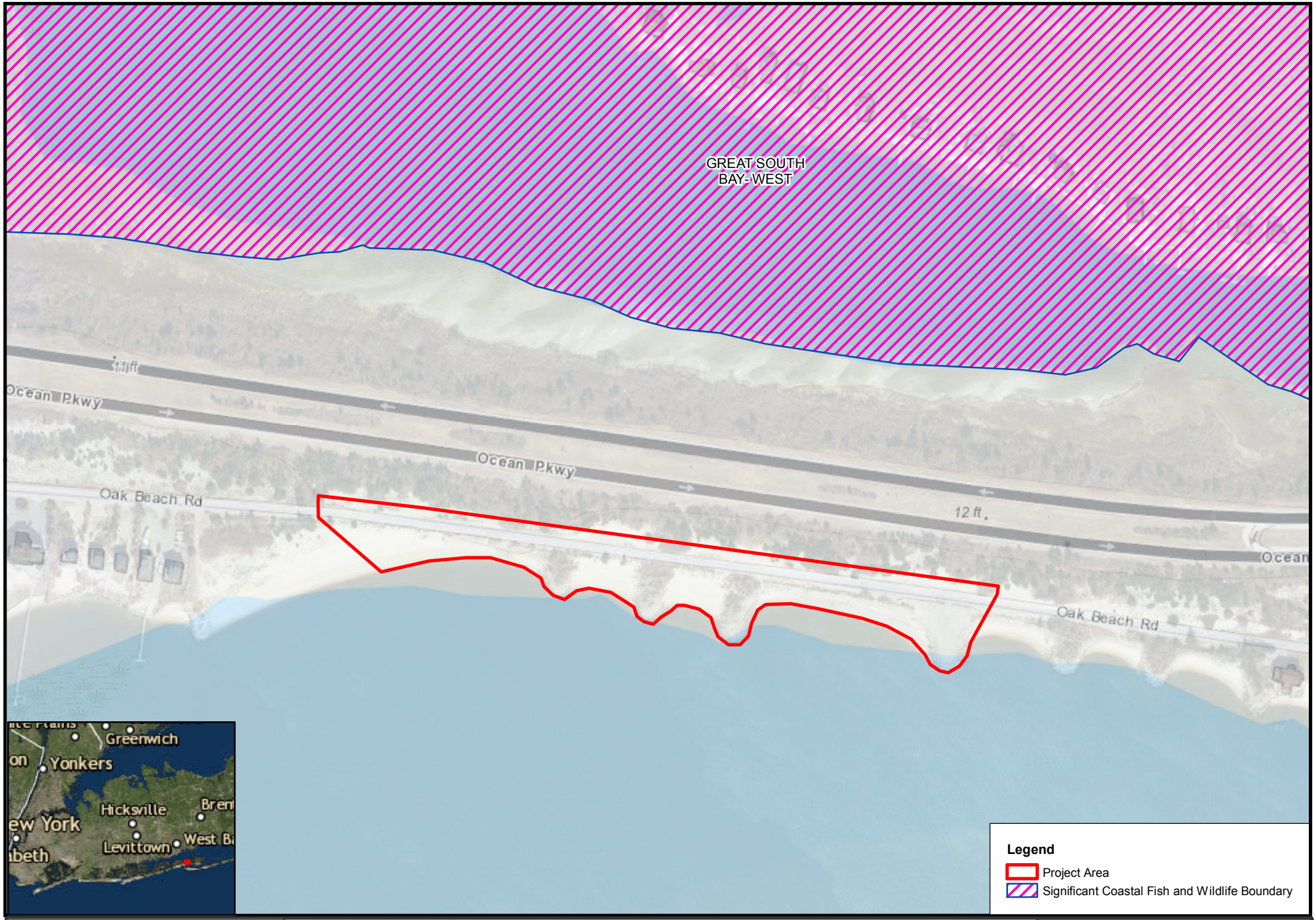

0 0.04 0.08 Miles

Oak Beach Shoreline Stabilization & Roadway Improvements
Town of Babylon, Suffolk County, New York

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FEMA data uses NAVD88*

0 600 1,200 Feet

Oak Beach Shoreline Stabilization & Roadway Improvements

Town of Babylon, Suffolk County, New York

Half-Mile Buffer SSA and SWAP Analysis

Governor's Office of Storm Recovery

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0 0.05 0.1 Miles

Oak Beach Shoreline Stabilization & Roadway Improvements
Town of Babylon, Suffolk County, New York

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0 0.025 0.05 Miles

Oak Beach Shoreline Stabilization & Roadway Improvements
Town of Babylon, Suffolk County, New York

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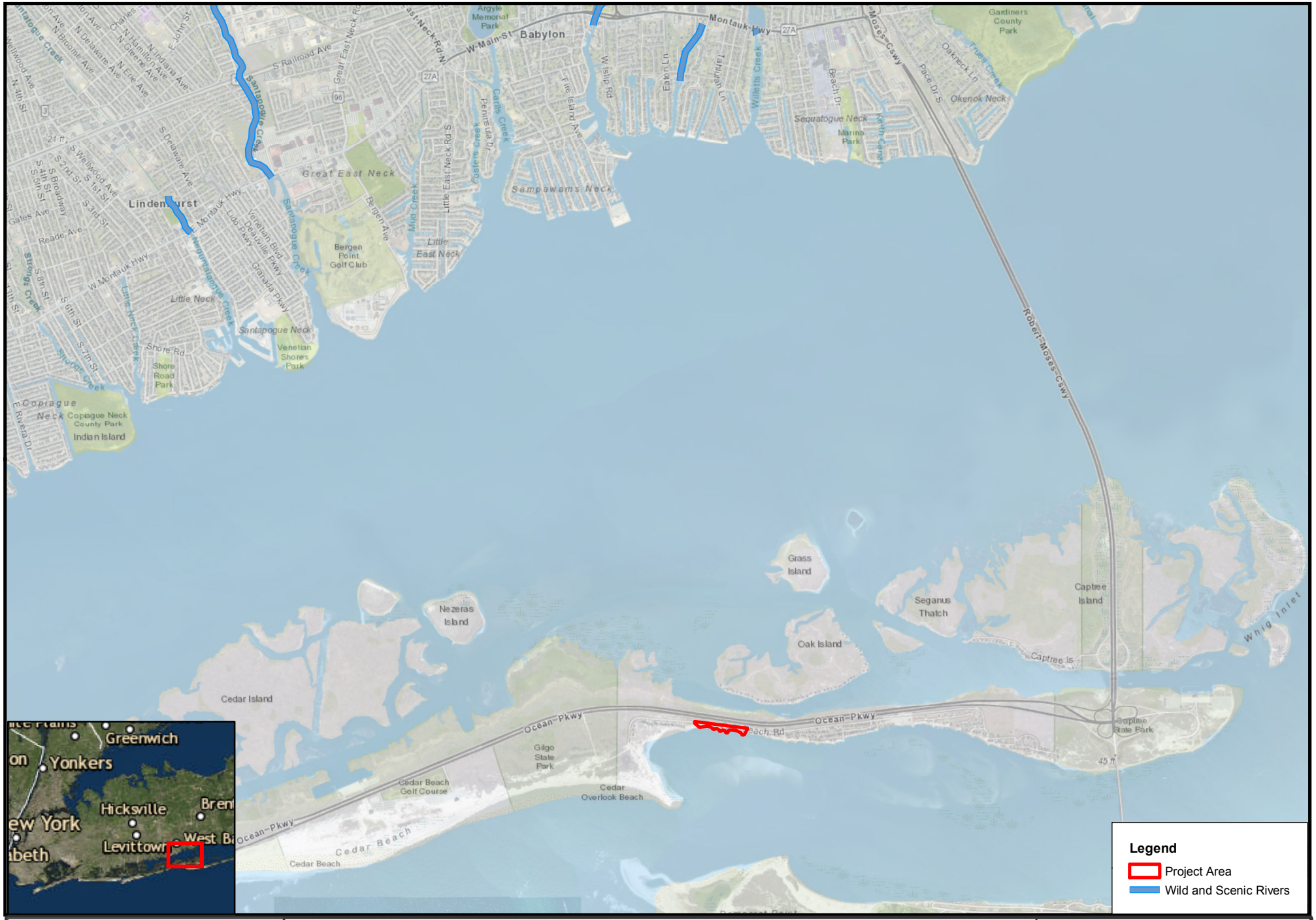

0 0.5 1 Miles

Oak Beach Shoreline Stabilization & Roadway Improvements
Town of Babylon, Suffolk County, New York

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STATE OF NEW YORK
DEPARTMENT OF STATE
ONE COMMERCE PLAZA
99 WASHINGTON AVENUE
ALBANY, NY 12231-0001
WWW.DOS.NY.GOV

ANDREW M. CUOMO
GOVERNOR

ROSSANA ROSADO
ACTING SECRETARY OF STATE

October 26, 2018

Ms. Alicia Shultz
NYS Homes and Community Renewal
25 Beaver Street
New York, NY 10004

Re: **F-2018-0827 (FA)**
Governor's Office of Storm Recovery (GOSR)
Shoreline Stabilization and Road Improvements – Oak Beach
144 to 221 Oak Beach Road, Babylon,
County of Suffolk, NY; *Atlantic Ocean*

Federal financial assistance

General Concurrence - No Objection to Funding

Dear Ms. Shultz:

The Department of State received the information you submitted regarding the above matter on August 22, 2018 and has completed its review. The Department of State has no objection to the use of U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant – Disaster Recovery (CDBG-DR) funds for this financial assistance activity to the Town of Babylon for the above-listed activities.

This concurrence pertains to the federal financial assistance for this project only. If a federal permit or other form of federal agency authorization is required for the above activities, the Department of State will conduct a separate review for those permit activities. In such a case, applicants must forward a copy of the federal/ state joint application for authorization, a completed Federal Consistency Assessment Form (FCAF), project drawings and details and all other supporting information to the Department at the same time application is submitted to the federal agency from which the necessary authorization is requested.

Sincerely,

Matthew P. Maraglio
Supervisor, Consistency Review Unit
Office of Planning, Development, and Community Infrastructure

MM/ TS
Cc: Hanna Emouna – Nelson, Pope, & Voorhis

NEW YORK STATE OF OPPORTUNITY. | Department of State

Governor's Office of
Storm Recovery

ANDREW M. CUOMO
Governor

August 22, 2018

Mr. Jeffrey Zappieri
Supervisor, Consistency Review Unit
Division of Coastal Resources
New York State Department of State
One Commerce Plaza
99 Washington Avenue
Albany, New York 12231-0001

CC: Denise Caldwell

RE: Coastal Zone Consistency Review – HUD CDBG-DR Program
Shoreline Stabilization and Road Improvements – Oak Beach
144 to 221 Oak Beach Road, Babylon, Suffolk County, New York

Dear Mr. Zappieri:

The Governor's Office of Storm Recovery (GOSR), operating under the auspices of the New York State Homes and Community Renewal's Housing Trust Fund Corporation, was established to aid the statewide recovery of disaster-affected communities in New York State. GOSR is administering a U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant for Disaster Recovery (CDBG-DR), including the NY Rising Community Reconstruction Grant Program. On behalf of GOSR, please find the enclosed Coastal Zone Consistency Materials for the Shoreline Stabilization and Road Improvements – Oak Beach Project (Proposed Project).

Project Description

The Town of Babylon is requesting CDBG-DR funding to strengthen the shoreline at the most critical points along Oak Beach's shoreline and raise Oak Beach Road. The proposed project includes the restoration of the existing Oak Beach roadway that has sustained damage due to past erosion and storm events. Two sections of shoreline stabilization are proposed to prevent future erosion events from impacting the roadway. Oak Beach Road is a single-entry road that serves all of Oak Beach's residents and which becomes impassable during flood events due to its proximity to the inadequately protected shoreline. Part of the western edge of the road collapsed due to the

destabilization of the shoreline and subsurface material. Several additional breach points, particularly adjacent to fire jetties, permitted the storm surge to enter the community and significantly added to the magnitude of flooding. These jetties will be upgraded for anticipated sea level rise and connected to the adjacent shoreline structures (e.g. adjacent bulkheading or revetments) to mitigate these breach points in the future.

The proposed project seeks to reduce flooding to residences and the infrastructure on which they rely, including Oak Beach Road, water systems, and public facilities. The proposed project will also fund improvements to Oak Beach Road to reduce on-street flooding and improve drainage, particularly through the incorporation of green infrastructure. Improvements to the roadway include altering the pitch of the road, utilization of the northern vegetated flank as a bioswale, and optimization of Oak Beach Park at the easterly start of the roadway for the infiltration of excess stormwater.

This project is part of a larger project which includes the West Gilgo to Captree Community and encompassing six distinct barrier beach communities: West Gilgo, Gilgo, Oak Beach, Oak Island, Oak Island Beach Association, and Captree Island. The six communities are spread out along 10 miles of barrier island coastline and on three separate islands.

The improvements to Oak Beach Road and associated shoreline are shown in the attached design plans. Approximately 22 feet by 1489 feet of the roadway will be restored. Oak Beach Road asphalt will be elevated with clearing and grading along the northern side of the road, 20 feet to the north. Within this 20-foot-wide strip of cleared land an approximately 9,543 square foot bioswale will be constructed the north side of the roadway and an approximate 13,443 square foot planted stabilization berm will be constructed on the south side of the roadway. Appropriate native species will be utilized within the vegetated bioswale and stabilization berm. On the south side of the road at two sections of the road, an eastern and western section, a planted berm with soil will be constructed for stabilization and connected to a stone revetment (geotextile fabric and armor stone) which will be anchored into a vegetated low sill bulkhead up to the mean high-water line. The two sections are approximately 40 feet in length and total approximately 20,322 square feet. This section of road has no homes or other structures adjacent to it and is located on a narrow strip of land, a barrier island, between the Atlantic Ocean and Great South Bay. The road runs between Gilbo State Park and Captree State Park.

A total of approximately 2,200 cubic yards of armor stone, and approximately 600 cubic yards of bedding stone will be utilized for the stabilization of the shoreline. Approximately 2,730 square feet of stone will be places seaward of Mean High Water (MHW) and approximately 450 cubic yards of clean sand will be obtained from an approved upland location to be utilized as backfill. An approximate 32,850 square foot portion of the roadway will be raised and repaired. The impervious roadway surface will not extend beyond the limits of the existing impervious roadway.

Creation of the bioswale on the north side of the roadway will require the removal of sand to be used in the regrading of the area immediately north of the bioswale and approximately 450 cubic yards of clean sand backfill will be utilized on the south side of the roadway, landward of the shoreline stabilization structures, to create a planted stabilization berm.

Track mounted machinery consistent with roadway construction, excavation and stone placement will be utilized. Equipment may include excavator, skid-steer and backhoe. All activities will occur in single phase. Silt fence will be installed around the area of disturbance. All machinery will be stored landward of the delineated wetland boundary.

The revetments extend into a tidal wetland and Submerged Aquatic Vegetation is located adjacent to the south boundary of the project area. The project area is located within the boundary of the New York State Coastal Zone. GOSR is acting as the Responsible Entity in accordance with 24 CFR Part 58 – Environmental Review Procedures for Entities Assuming HUD Environmental Responsibilities. Pursuant to the Coastal Zone Management Act, the project applicant has prepared the attached Federal Consistency Assessment Form and Policy Compliance Summary (**Attachment 2**) to certify that the proposed project is consistent with New York State's Coastal Management Program.

GOSR is requesting a response letter from your office that can be included as an attachment to our environmental documentation to confirm that coordination with the New York Department of State, Division of Coastal Resources has been completed, and general consistency concurrence criteria will be met. If we have not received a response within 30 days, GOSR will assume your concurrence.

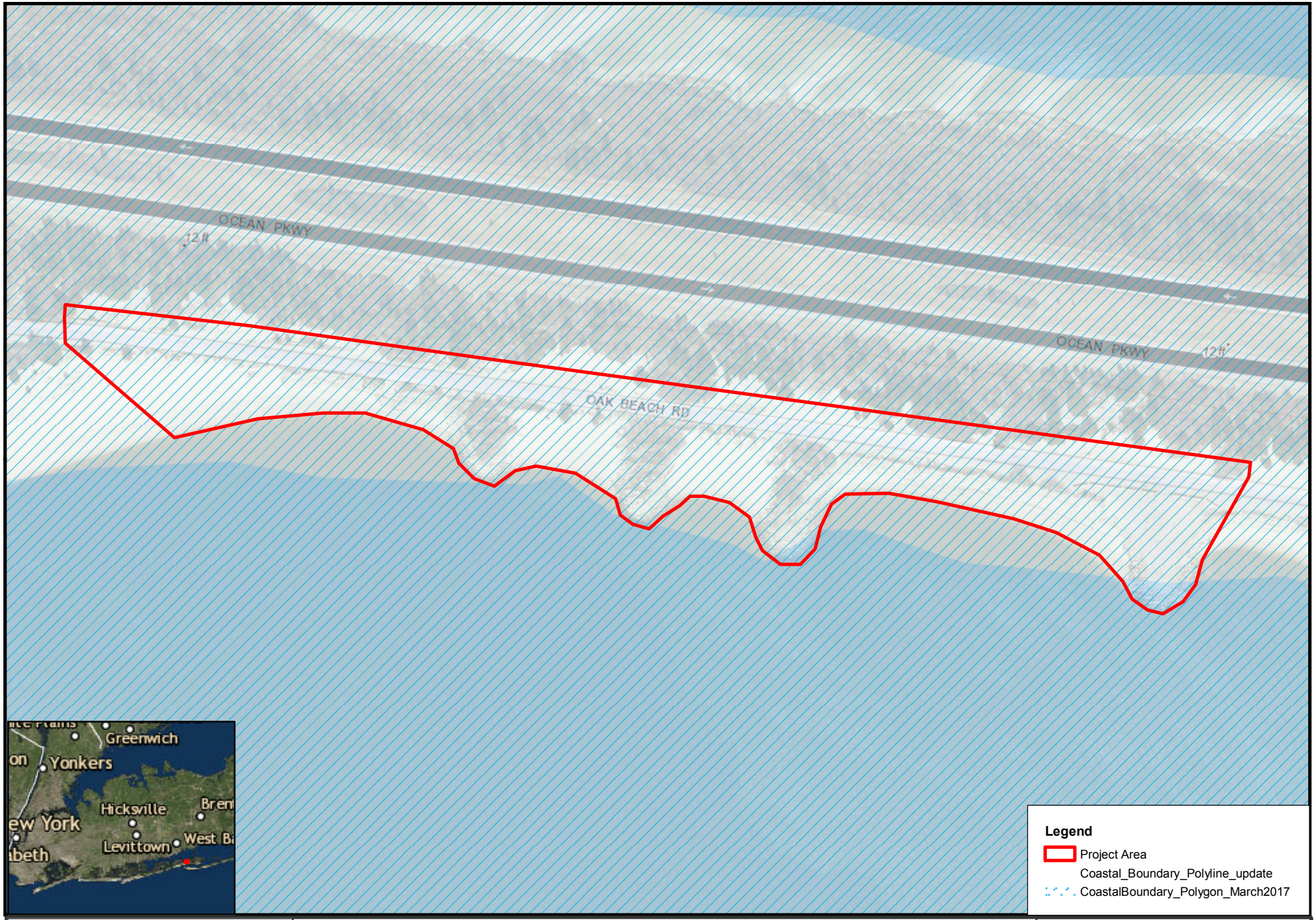
If you have any questions, please feel free to contact me via telephone number (518) 474-0647 or email: alicia.shultz@nyshcr.org. Thank you for your consideration and cooperation.

Sincerely,

Alicia Shultz
Senior Environmental Scientist
New York State Homes & Community Renewal

Attachments:
Attachment 1 - Project Location Maps and Design Plans
Attachment 2 - Consistency Assessment Form/Summary of Compliance with Applicable Policies

Attachment 1



0 0.025 0.05 Miles

Oak Beach Shoreline Stabilization & Roadway Improvements
Town of Babylon, Suffolk County, New York

Data Sources: Esri Topographic and World Imagery Basemap, NYOPDIG, NYDEC, USGS, USFWS, FEMA, NYC MapPluto, EPA OAR-OAQPS, NYS GIS Clearinghouse

Governor's Office of Storm Recovery

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FEMA data uses NAVD88*

0 0.05 0.1 Miles

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Town of Babylon, Suffolk County, New York

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0 0.025 0.05 Miles

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Town of Babylon, Suffolk County, New York

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FEMA data uses NAVD88*

Legend

Project Area

Effective FEMA Floodplain (DFIRM)

- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- A
- AE
- AO
- VE
- OPEN WATER
- X

0 0.025 0.05 Miles

Oak Beach Shoreline Stabilization & Roadway Improvements
Town of Babylon, Suffolk County, New York

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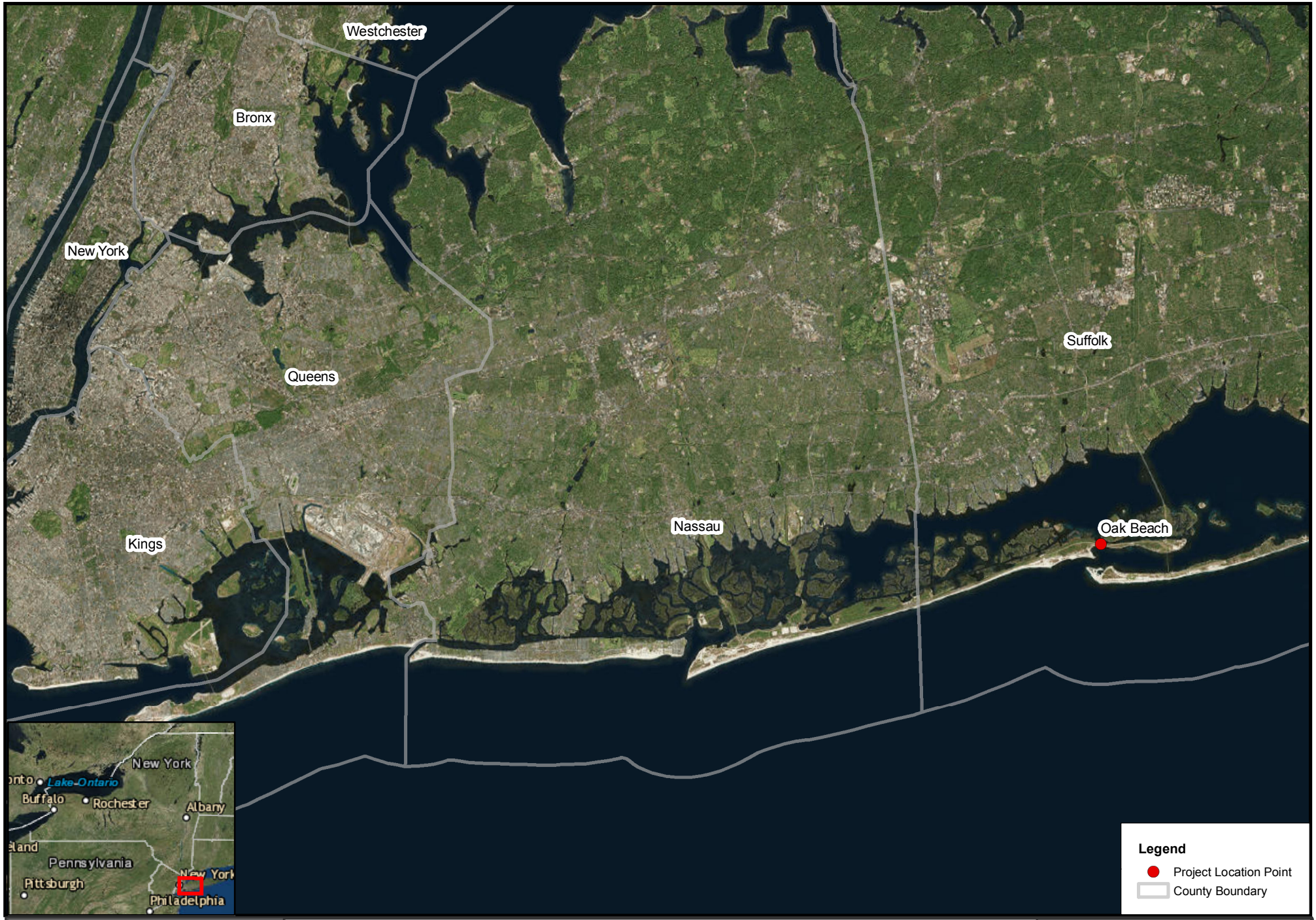

0 3.25 6.5 Miles

Oak Beach Shoreline Stabilization & Roadway Improvements
Town of Babylon, Suffolk County, New York

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0 0.05 0.1 Miles

Oak Beach Shoreline Stabilization & Roadway Improvements
Town of Babylon, Suffolk County, New York

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0 0.025 0.05 Miles

Oak Beach Shoreline Stabilization & Roadway Improvements
Town of Babylon, Suffolk County, New York

Data Sources: Esri Topographic and World Imagery Basemap, NYOPDIG, NYDEC, USGS, USFWS, FEMA, NYC MapPluto, EPA OAR-OAQPS, NYS GIS Clearinghouse

Governor's Office of Storm Recovery

N

Drawn By: ASL | Version: 1.0 | Date:8/7/2018

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FEMA data uses NAVD88*

TOWN OF BABYLON
DEPARTMENT OF PUBLIC WORKS

KEY MAP
NTS

PLANS FOR

OAK BEACH COMMUNITY SHORELINE STABILIZATION AND ROADWAY IMPROVEMENTS

SUFFOLK COUNTY, NEW YORK

THIS PROJECT IS FUNDED IN PART THROUGH NEW YORK STATE GOVENOR'S OFFICE OF
STORM RECOVERY - DISASTER RECOVERY AND FEDERAL FUNDS COMMUNITY DEVELOPMENT BLOCK GRANTS

60% DESIGN PLANS

CONTRACT NO. XXXX

AUGUST 2018

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, PROFESSIONAL ENGINEERING AND LAND SURVEYING, SECTION 7209 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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No.	DATE	REVISION	BY:
-	-	-	-/-

DWN. BY:	TK
CHK'D BY:	RS
DATE:	JULY 2018
JOB No.:	18110
CADD:	COV
SCALE:	NONE
DRAWING NUMBER:	C-1
SHEET:	1 OF 11

GENERAL NOTES:

MISCELLANEOUS

1. ALL GENERAL WORK IN THIS CONTRACT SHALL CONFORM TO THE THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION SEPTEMBER 1, 2017 STANDARD SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED. ALL BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THESE SPECIFICATIONS, THE NYSDOT STANDARDS AND ALL REFERENCED SPECIFICATIONS, STANDARDS, AND REQUIREMENTS.

2. IT SHOULD BE NOTED THAT SPECIFICATIONS FOR CERTAIN CONTRACT ITEMS CONTAINED HEREIN REFER DIRECTLY OR INDIRECTLY TO THE SPECIFICATIONS FOR OTHER ITEMS FOR STANDARDS OF WORKMANSHIP, METHODS, EQUIPMENT, QUALITY OF MATERIALS, ETC. EVEN THOUGH THE ITEMS REFERRED TO ARE NOT INCLUDED IN THE PROPOSAL. NO ADDITIONAL PAYMENT WILL BE MADE BY REASON OF SUCH REFERENCE. THE COST OF WORK, MATERIALS, EQUIPMENT, OR PROCEDURES REFERRED TO SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS ITEMS IN THE PROPOSAL.

3. ALL OPERATIONS SHALL BE CONDUCTED SO AS NOT TO INTERFERE WITH, INTERRUPT OR ENDANGER NEW YORK STATE PARK LAND.

4. AREAS BEYOND THE WORK LIMITS DISTURBED FOR ANY REASON, BY THE CONTRACTOR AND HIS EMPLOYEES, SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

5. THE CONTRACTOR SHALL TAKE PRECAUTIONS NOT TO LEAVE DEBRIS, MATERIALS, AND TOOLS, ETC., ON THE ROADWAY SURFACE WHEN LEAVING THE WORK AREA. IN ADDITION, THE CONTRACTOR SHALL TAKE PRECAUTIONS THAT NO DEBRIS, ETC., INTERFERES WITH ADJACENT OPEN TRAFFIC LANES AND PEDESTRIAN WALKS.

6. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS (CURB, SIDEWALK, ASPHALT, GUTTER, SOD, PAVEMENT, ETC.) IN-KIND.

7. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT DUE TO THE NATURE OF RECONSTRUCTION THIS PROJECT, THE EXACT EXTENT OF RECONSTRUCTION THE WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER AVAILABLE INFORMATION. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER.

PAVING

8. THE CONTRACTOR SHALL RESURFACE ALL MILLED PAVEMENT WITHIN 14 DAYS OF MILLING.

9. ANY OF THE EXISTING ASPHALT OVERLAY WHICH DOES NOT FIRMLY ADHERE TO EXISTING PAVEMENT, AS DETERMINED BY THE ENGINEER, SHALL BE REMOVED UNDER VARIOUS CONTRACT ITEMS. ALL LOOSE ASPHALT THUS REMOVED, AND ASPHALT REMOVED PRIOR TO THE START OF WORK, SHALL BE REPLACED WITH NEW ASPHALT CONCRETE UNDER THE TOP COURSE ITEM.

10. THE PROVISIONS REGARDING USAGE OF A TAUT REFERENCE LINE DO NOT APPLY TO THIS CONTRACT. THE CONTRACTOR WILL NOT BE REQUIRED TO UTILIZE A TAUT REFERENCE LINE FOR PLACEMENT OF THE ASPHALT RESURFACING PROVIDED HE CAN PLACE THE ASPHALT WITHIN THE SURFACE TOLERANCES NOTED IN THE SPECIFICATIONS.

11. PROVISIONS OF THE PAVEMENT MILLING ITEM ALLOWING REMOVAL OF MILLED MATERIAL BY SEPARATE EQUIPMENT PROVIDED SUCH REMOVAL IS ACCOMPLISHED AT A RATE EQUIVALENT TO THE MILLING RATE DO NOT APPLY IN THIS CONTRACT. THE CONTRACTOR SHALL ONLY UTILIZE MILLING MACHINES HAVING INTEGRAL LOADING SYSTEMS.

12. TACK COAT – IN ADDITION TO THE DISTRIBUTOR EQUIPMENT, SMALL POWER SPRAY UNITS OF HAND-HELD SPRAY EQUIPMENT, AS APPROVED BY THE ENGINEER, MAY BE USED IN THE AREAS WHERE USE OF THE DISTRIBUTOR IS IMPRACTICAL, SUCH AS; NARROW IRREGULAR AREAS, INTERSECTIONS, AND OTHER LOCATIONS WHERE TRAFFIC MUST BE ALLOWED TO CROSS THE PAVEMENT AND IN AREAS WHERE THE DISTANCE BETWEEN INTERSECTIONS IS SHORT AS DETERMINED BY THE ENGINEER.

13. TACK COAT SHALL BE APPLIED WHENEVER RESURFACING:(1) ANY PORTLAND CEMENT CONCRETE PAVEMENT;2) ANY MILLED PAVEMENT; AND(3) ANY ASPHALT CONCRETE PAVEMENT EXCEPT WHEN THE EXISTING SURFACE IS EXCESSIVELY FLUSHED, AS DETERMINED BY THE ENGINEER.

    IN ADDITION, TACK COAT SHALL BE APPLIED TO CONTACT SURFACES BETWEEN ALL HOT MIX ASPHALT PAVEMENT LIFTS REGARDLESS OF TIME PERIOD BETWEEN LIFTS OR CONSTRUCTION VEHICLE USE (EXCLUDING THE SURFACE OF PERMEABLE BASE MATERIAL).

14. WHERE NOTCHES ARE CUT INTO THE EXISTING PAVEMENT IN PREPARATION FOR THE OVERLAY AT THE LIMITS OF RESURFACING, PRIOR TO REOPENING THE ROADWAY TO TRAFFIC, THE CONTRACTOR SHALL EITHER PLACE THE PROPOSED ASPHALT OVERLAY IMMEDIATELY OR PLACE A TEMPORARY WEDGE (1 ON 60) OF ASPHALT TO ELIMINATE THE BUMP CREATED BY THE NOTCH. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE PAVING ITEMS.

15. CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 403 OF THE STANDARD SPECIFICATIONS. WHEN HOT MIX ASPHALT IS TO BE PLACED BY BITUMINOUS PAVER THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN A CONSISTENT GRADATION ACROSS THE MAT. THIS MAY INCLUDE, BUT NOT BE LIMITED TO, REMIXING OF MATERIAL TRANSFERRED FROM THE HAULING UNIT. THE CONTRACTOR SHALL USE EQUIPMENT SUCH AS MOBILE CONVEYER, MATERIAL TRANSFER VEHICLE DEVICE, SHUTTLE BUGGY, MATERIAL TRANSFER PAVER, OR PAVER WITH REMIXER CONVEYOR SYSTEM. THE ENGINEER WILL CONSIDER OTHER TYPES OF EQUIPMENT OR MODIFICATIONS TO PAVERS, WHICH WILL MINIMIZE SEGREGATION. RAVELING THAT MAY OCCUR TO THE ASPHALT MAT THAT IS SUBJECT TO TRAFFIC DURING ANY PHASE OF CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL NECESSARY REPAIRS TO RAVELED AREAS SHALL BE REPAIRED AT NO COST TO THE STATE. THIS WORK MAY INCLUDE, BUT IS NOT LIMITED TO, SAW CUTTING, REMOVAL OF RAVELED/UNSTABLE HOT MIX ASPHALT AND PLACEMENT OF NEW HOT MIX ASPHALT MATERIAL IN REPAIR AREA.

    THE PAVER SHALL HAVE A CONSTANT FLOW/HEAD OF MATERIAL. THE WINGS OF THE PAVER RECEIVING HOPPER SHALL NOT BE RAISED (DUMPED) AT ANY TIME DURING THE PAVING OPERATION. STOPPING OF PAVING MACHINE SHALL BE KEPT TO A MINIMUM. BROADCASTING OF LOOSE MATERIAL OVER THE PAVED MAT WILL NOT BE PERMITTED.

16. WHEN REMOVING EXISTING ASPHALT WITHIN AN AREA TO BE RESURFACED, THE CONTRACTOR SHALL REMOVE THE MATERIAL TO A NEAT LINE HAVING A MAXIMUM DEVIATION FROM THE STRAIGHT OF 4 INCHES IN 10 FEET AND AOBE TO PERMIT PROPER AND ADEQUATE REPLACEMENT AND COMPACTION OF THE NEW ASPHALT. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK BUT THE COST SHALL BE INCLUDED IN THE PRICE BID FOR UNCLASSIFIED EXCAVATION.

SAW CUTTING

17. NO PAYMENT WILL BE PAID UNDER THE SAWCUT ITEMS, IF THE PAYMENT FOR SAWCUT IS INCLUDED IN OTHER ITEMS.

SURVEY

21. THE DATUM USED ON THIS CONTRACT IS THE MEAN SEA LEVEL ELEVATION 0.000 FT AT SANDY HOOK, NEW JERSEY AS DETERMINED BY THE UNITED STATES COAST AND GEODETIC SURVEY. COORDINATES IN THE N.Y.S. SYSTEM AS ESTABLISHED FOR LONG ISLAND BY THE US COAST AND GEODETIC SURVEY. BEARINGS ARE REFERRED TO THE TRUE NORTH AT 74°-00'WEST LONGITUDE. THE HORIZONTAL COORDINATES ARE EXPRESSED IN US SURVEY FEET IN THE N.Y. STATE PLANE COORDINATE SYSTEM, LONG ISLAND ZONE (ZONE 3104). VERTICAL DATUM IS NAVD AS ESTABLISHED BY THE NGS ON BENCHMARK U38 (PID# KU0149)

22. THE CONTRACTOR SHALL EMPLOY A LICENSED SURVEYOR TO PERFORM ANY REQUIRED LAYOUT, ESTABLISHMENT OF ELEVATIONS AND GRADES, PRIOR TO CONSTRUCTION. THE CONTRACTOR'S HIRED LICENSED SURVEYOR SHALL ALSO COMPLETE A SIGNED AND SEALED AS-BUILT SURVEY POST CONSTRUCTION THAT WILL BE SUBMITTED TO BNL BY THE CONTRACTOR. THE COST FOR ALL SURVEY RELATED WORK SHALL BE PAID FOR UNDER THE SURVEY ITEM.

23. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NOT TO DISTURB ANY MONUMENTS AND BENCH MARKS WITHIN PROJECT LIMITS PRIOR TO THE START OF ANY EXCAVATION. ANY EXPENSE INCURRED IN REPLACING MONUMENTS OR BENCHMARKS THAT THE CONTRACTOR, OR ANY EMPLOYEE, MAY HAVE FAILED TO PRESERVE SHALL BE PAID BY THE CONTRACTOR AT NO ADDITIONAL COST TO BROOKHAVEN NATIONAL LABORATORY.

24. THE CENTERLINE SHOWN ON THESE PLANS IS APPROXIMATE AND IS SHOWN FOR TABULATING AND FILING PURPOSES ONLY. THE CENTERLINE STATIONING MAY BE ESTABLISHED BY FLAT CHAINING ALONG THE EXISTING SURFACE UTILIZING CONTROLS FURNISHED BY THE ENGINEER. PAYMENT SHALL BE INCLUDED IN THE SURVEY OPERATIONS ITEM 625.01.

LANDSCAPING

25. TREES AND SHRUBS ARE TO BE PRUNED IN ACCORDANCE WITH CLEARING AND GRUBBING AND THE FOLLOWING REQUIREMENTS. ALL COSTS SHALL BE INCLUDED IN THE PRICE BID FOR CLEARING AND GRUBBING.

    (A) THE CONTRACTOR SHALL CAREFULLY CUT OFF ALL BRANCHES OF PLANTS HANGING WITHIN 16 FEET ABOVE ANY PART OF THE ROADWAY OR WITHIN 2 FEET OF THE EDGE OF THE SHOULDER. BRANCHES SHALL BE TRIMMED AT THE TRUNK TO MAINTAIN A CALLOUS RIDGE.

    (B) PRUNING MAY BE REQUIRED BEYOND THE LIMITS INDICATED IN ORDER TO MAINTAIN ADEQUATE SIGHT DISTANCE FOR ALL TRAFFIC SIGNS AND SIGNALS. ADDITIONAL BRANCH PRUNING MAY ALSO BE REQUIRED ON ANY TREE WHERE BRANCHES ARE REMOVED IN ORDER TO MAINTAIN AN ESTHETIC BALANCE. ALL SUCH ADDITIONAL PRUNING SHALL BE AS ORDERED BY THE ENGINEER.

    (C) ALL WORK SHALL BE DONE ACCORDING TO ACCEPTABLE HORTICULTURAL AND PRUNING PRACTICES.

    (D) THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE ANY EXISTING TREES THAT ARE TO REMAIN. ANY DAMAGE THROUGH CARELESSNESS OF THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE, AOBE.

CLEARING AND GRUBBING

26. CLEARING AND GRUBBING SHALL INCLUDE THE REMOVAL OF ALL TREES, AS SHOWN ON THE PLANS OR AS ORDERED BY THE ENGINEER. THE CONTRACTOR SHALL NOTIFY THE E.I.C TWO (2) WEEKS PRIOR TO REMOVAL OF ANY TREES AND SHALL NOT START HIS OPERATION UNTIL APPROVED BY THE ENGINEER.

27. THE CONTRACTOR SHALL PERFORM THE APPROPRIATE SUBGRADE DENSITY TESTING UPON COMPLETION OF FINE GRADING OF SUBGRADE MATERIAL FOR THE CONSTRUCTION OF THE ROADWAY AS PER THE LATEST NYSDOT SPECIFICATIONS AND STANDARDS, AOBE.

SOIL AND SOIL EROSION CONTROL

28. THE COST FOR ANY NECESSARY DEWATERING SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS CONTRACT ITEMS.

SIGNS

29. ALL EXISTING SIGNS THAT ARE DAMAGED OR REMOVED BY CONSTRUCTION PROCESSES UNDER THIS WORK SHALL BE RESET OR REPLACED AS REQUIRED OR AS ORDERED BY THE ENGINEER RESPONSIBLE FOR CONSTRUCTION INSPECTION.

30. CURRENT REQUIREMENTS FOR LATERAL CLEARANCE AND HEIGHT REQUIREMENTS FOR SIGNS ARE GIVEN ON THE STANDARD SHEET TITLED POSITIONING OF TRAFFIC SIGNS.

UTILITIES

31. CONTRACTOR SHALL CONTACT UTILITIES FOR MARK-OUT OF ALL UTILITIES PRIOR TO CONSTRUCTION.

32. EXISTING UNDERGROUND AND OVERHEAD UTILITIES AS SHOWN HEREIN HAVE BEEN DETERMINED BY STANDARD SURVEYING METHODS AND AVAILABLE RECORDS. NEITHER THE EXACT LOCATION NOR THE INFORMATION OF THESE EXISTING UTILITIES IS GUARANTEED TO BE COMPLETE OR CORRECT.

SHEET INDEX:

PAGE NUMBER(S)	DRAWING NUMBER(S)	SHEET TITLE
1	C-1	COVER SHEET
2	LGND-1	LEGEND PLAN
3	TYP-1	TYPICAL SECTION
4	DET-1	MISCELLANEOUS DETAILS
5	WTZC-1	WORK ZONE TRAFFIC CONTROL
6	AP-1	ALIGNMENT PLAN
7	OVR-1	OVERALL PLAN
8-10	CP 1-3	CONSTRUCTION PLAN
11	LP 1	LANDSCAPE PLAN

FEATURE	SYMBOL EXISTING	SYMBOL PROPOSED (SEE PLANS)
BOUNDARIES		
HIGHWAY BOUNDARY LINE		
VILLAGE, CITY OR TOWN LIMITS		
BUILDING		
BUILDING LINE		
ROADWAY AND SIDEWALK		
TRAVERSABLE CURB		
CURB LINE		
SIDEWALK	SW	
DECORATIVE CONCRETE ISLAND		
TRUCK APRON		
DRIVEWAY APRON		
SIDEWALK RAMP (REINFORCED CONCRETE)		
TRAFFIC FLOW		
ASPHALT ROAD		
VEGETATION		
TREES, DECIDUOUS		
TREES, CONIFEROUS		
SHRUBS, BUSHES		
GRASS RESTORATION		
TRAFFIC SIGNAL SYSTEMS		
PULLBOX		
SPAN WIRE	SPAN	
TRAFFIC SIGNAL POLE		
TRAFFIC SIGNAL POLE WITH CONTROLLER CABINET		
CONTROLLER OR DETECTOR CABINET		
TRAFFIC SIGNAL FACE		
PEDESTRIAN SIGNAL FACE		
PEDESTRIAN PUSH BUTTON		
ALUMINUM VEHICLE DETECTOR HOUSING		
AERIAL TRAFFIC SIGNAL COMMUNICATION CABLE	TS TS	
UNDERGROUND TRAFFIC SIGNAL CONDUIT		
LOOP DETECTOR	LOOP	
SURVEY DATA		
SPOT ELEVATION	X 34.13	X 34.13
BASELINE		
HORIZONTAL CONTROL LINE		
EROSION CONTROL		
SILT FENCE		
DRAINAGE STRUCTURE PROTECTION		
STREET LIGHTING SYSTEM		
PULLBOX		
LIGHT FIXTURE		

FEATURE	SYMBOL EXISTING	SYMBOL PROPOSED (SEE PLANS)
UTILITIES BELOW GROUND		
STORM DRAIN INLET		
GAS VALVE		
WATER VALVE		
ELECTRIC LINE	E	
FIRE COMMUNICATIONS LINE	FD	
GAS LINE	8"G	
SANITARY SEWER LINE	S	
STORM DRAINAGE LINE	D	
TELEPHONE LINE	T	
WATER LINE	8"W	
INFORM LINE	INFORM	
CABLEVISION LINE	CA	
ELECTRIC MANHOLE	E	
GAS MANHOLE	G	
LIPA MANHOLE	L	
SANITARY SEWER MANHOLE	S	
STORM DRAINAGE MANHOLE	D	
TELEPHONE MANHOLE	T	
FIRE HYDRANT		
STREET LIGHT		
FIELD INLET		
UTILITIES ABOVE GROUND		
MISCELLANEOUS OVERHEAD WIRES	OHW OHW	
GUY WIRE		
UTILITY POLE		
UTILITY POLE WITH RISER		
MISCELLANEOUS FEATURES		
SIGNS		
GUIDE RAIL		
MEDIAN BARRIER		
RETAINING WALL		
FENCE		
NORTH ARROW (TRUE)		
TOPOGRAPHY		
CONTOURS	36.5 36.0 37.0	36.5 36.0 37.0
LIMIT OF RESTORATION, GRADING OR CLEARING AND GRUBBING		

LEGEND:

- STONE REVETMENT
- PLANTED/ STABILIZED BERM
- BIO SWALE AREA
- FULL DEPTH ASPHALT RECONSTRUCTION
- FLUSH CONCRETE CURB
- DECORATIVE TIMBER RAIL

TOPOGRAPHIC ABBREVIATIONS

E	ELECTRIC
G	GAS
GP	GUY POLE
GSB	GAS SERVICE BOX (HOUSE CONNECTION)
GV	GAS VALVE (MAIN LINE)
HPG	HIGH PRESSURE GAS
HYD	HYDRANT
LP	LIGHT POLE
LPG	LOW PRESSURE GAS
SA	SANITARY SEWER
ST	STORM DRAINAGE DEWRE
T	TELEPHONE
TEL P	TELEPHONE POLE
CA	CABLE TELEVISION
W	WATER
WM	WATER METER
WSB	WATER SERVICE BOX (HOUSE CONNECTION)
WV	WATER VALVE (MAIN LINE)
ABUT	ABUTMENT
AOBE	AS ORDERED BY THE ENGINEER
ASPH	ASPHALT
BLDG	BUILDING
BM	BENCH MARK
BR	BRIDGE
CONC	CONCRETE
CONST	CONSTRUCTION
CR	COUNTY ROAD
DWY	DRIVEWAY
EP	EDGE OF PAVEMENT
ES	EDGE OF SHOULDER
FP	FENCE POST
FND	FOUNDATION
FL	FENCE LINE
GAR	GARAGE
GR	GRAVEL
HO	HOUSE
HWY	HIGHWAY
MB	MAIL BOX
MON	MONUMENT
PAVT	PAVEMENT
RR	RAILROAD
RTE	ROUTE
ROW	RIGHT OF WAY
RW	RETAINING WALL
ST.	STREET
SW	SIDEWALK
TL	TREELINE
BC	BOTTOM OF CURB
CB	CATCH BASIN
CMP	CORRUGATED METAL PIPE
CULV.	CULVERT
DI	DROP INLET
EL	ELEVATION

DRAINAGE ABBREVIATIONS

BB	BOTTOM OF BANK (STREAM)
BC	BOTTOM OF CURB
BO	BOTTOM OF OPENING
CAP	CORRUGATED ALUMINUM PIPE
CB	CATCH BASIN
CI	CURB INLET
CIP	CAST IRON PIPE
℄ STRM	CENTERLINE OF STREAM
CMP	CORRUGATED METAL PIPE
CP	CONCRETE PIPE
CSP	CORRUGATED STEEL PIPE
CULV	CULVERT
DI	DROP INLET
D'XING	DITCH CROSSING
EHW	EXTREME HIGH WATER
ELEV OR EL	ELEVATION
ELW	EXTREME LOW WATER
ES	END SECTION
FI	FIELD INELT
HW	HEADWALL
INV	INVERT
LB	LEATCHING BASIN
MH	MANHOLE
MHW	MEAN HIGH WATER
OCMP	OBLATE CORRUGATED METAL PIPE
OHW	ORDINARY HIGH WATER
OLW	ORDINARY LOW WATER
RCP	REINFORCED CONCRETE PIPE
TB	TOP OF BANK
TC	TOP OF CURB
TG	TOP OF GRATE
TO	TOP OF OPENING
VCP	VITRIFIED CLAY PIPE
VTP	VITRIFIED TILE PIPE

ALIGNMENT ABBREVIATIONS

AH	AHEAD
AZ	AZIMUTH
BK	BACK
℄	BASELINE
BRG	BEARING
℄	CENTERLINE
CS	CURVE TO SPIRAL
D	DEGREE OF CURVE
DIA	DIAMETER
E MAX	MAXIMUM SUPERELEVATION
EQ	EQUALITY
EXT	EXTERNAL
HCL	HORIZONTAL CONTROL LINE
HSD	HEADLIGHT SIGHT DISTANCE
L	LENGTH OF CIRCULAR CURVE
LS	LENGTH OF SPIRAL
LVC	LENGTH OF VERTICAL CURVE
MC	CENTER CORRECTION OF VERTICAL CURVE
ℳ	MAIN LINE
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
POI	POINT ON LINE
PSD	PASSING SIGHT DISTANCE
PT	POINT OF TANGENT
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENT
R	RADIUS
SC	SPIRAL TO CURVE
SSD	STOPPONG SIGHT DISTANCE
ST	SPIRAL TO TANGENT
STA	STATION
T	TANGENT LENGTH
TGL	THEORETICAL GRADE LINE
TS	TANGENT TO SPIRAL
VC	VERTICAL CURVE

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CHK'D BY:	RS
DATE:	JULY 2018
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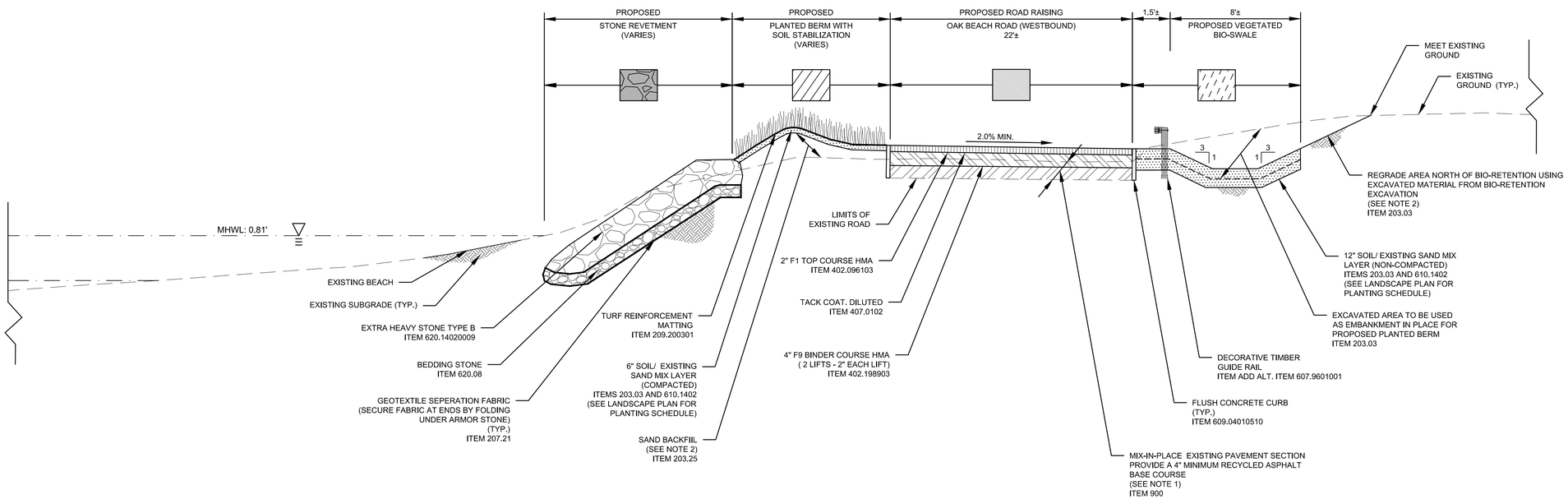
DRAWING TITLE:
LEGEND PLAN - 1
OAK BEACH COMMUNITY SHORELINE
STABILIZATION AND ROADWAY IMPROVEMENTS
BABYLON, NEW YORK

DRAWING NUMBER:
LGND-1

SHEET: 2 OF 11



TYPICAL SECTION A

NOT TO SCALE

NOTES:

1. ITEM 304.10119917 SHALL BE USED ONLY WHEN APPROVED BY THE ENGINEER FOR GRADATION PURPOSES, OR, IN FILL AREAS BELOW THE PAVEMENT BASE COURSE ONLY AFTER ALL EXCESS EXISTING MATERIAL FROM ITEM 900 OPERATIONS HAS BEEN USED.
2. ITEM 203.25 (SAND BACKFILL) SHALL BE USED AFTER ALL MATERIAL FROM ITEM 203.03 (EMBANKMENT IN PLACE) HAS BEEN USED.

60% DESIGN PLANS

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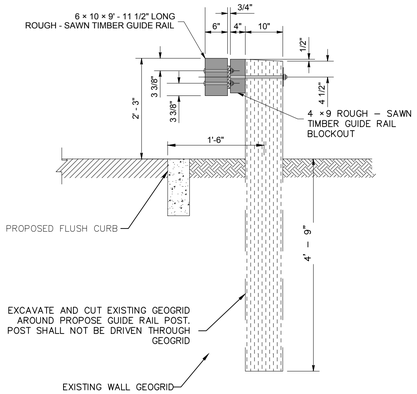
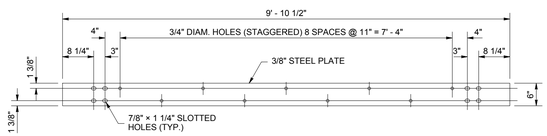
TYPICAL SECTION -1
OAK BEACH COMMUNITY SHORELINE
STABILIZATION AND ROADWAY IMPROVEMENTS
BABYLON, NEW YORK

DRAWING NUMBER:
TYP - 1

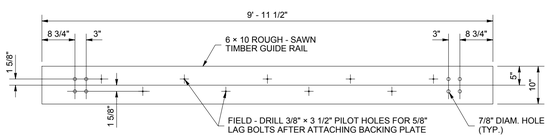
SHEET: 3 OF 11



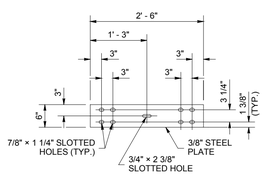
TIMBER GUIDE RAIL - SECTION A
ITEM 607.9601001
NOT TO SCALE



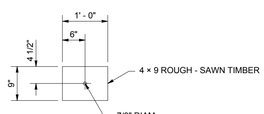
TIMBER GUIDE RAIL - STEEL BACKING PLATE
NOT TO SCALE



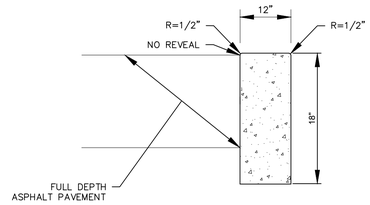
TIMBER GUIDE RAIL - TIMBER RAIL
NOT TO SCALE



TIMBER GUIDE RAIL
STEEL SPLICE PLATE
NOT TO SCALE



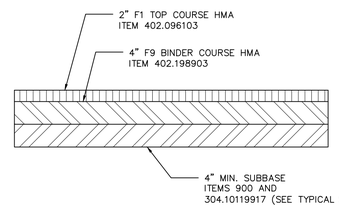
TIMBER GUIDE RAIL
RAIL BLOCKOUT
NOT TO SCALE



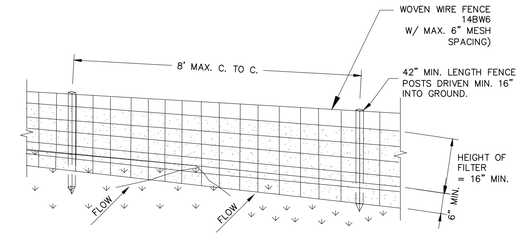
FLUSH CONCRETE CURB
N.T.S.
ITEM 609.04010510

CURB NOTE:

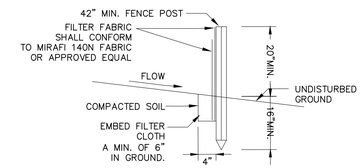
1. CONCRETE CURB SHALL BE CONSTRUCTED SO THAT THE FINAL TOP OF CURB GRADE MEETS THE PROPOSED GRADE OF THE TRUCK APRON AND/OR PAVEMENT TO ACHIEVE A FLUSH TRANSITION.



FULL DEPTH ASPHALT RESTORATION TYPICAL SECTION
N.T.S.



PERSPECTIVE VIEW

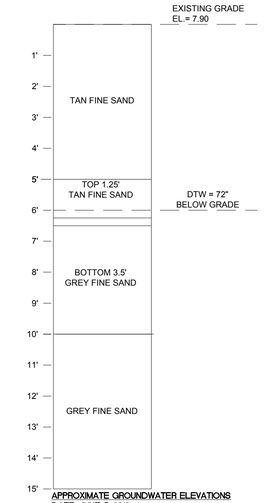


SECTION VIEW

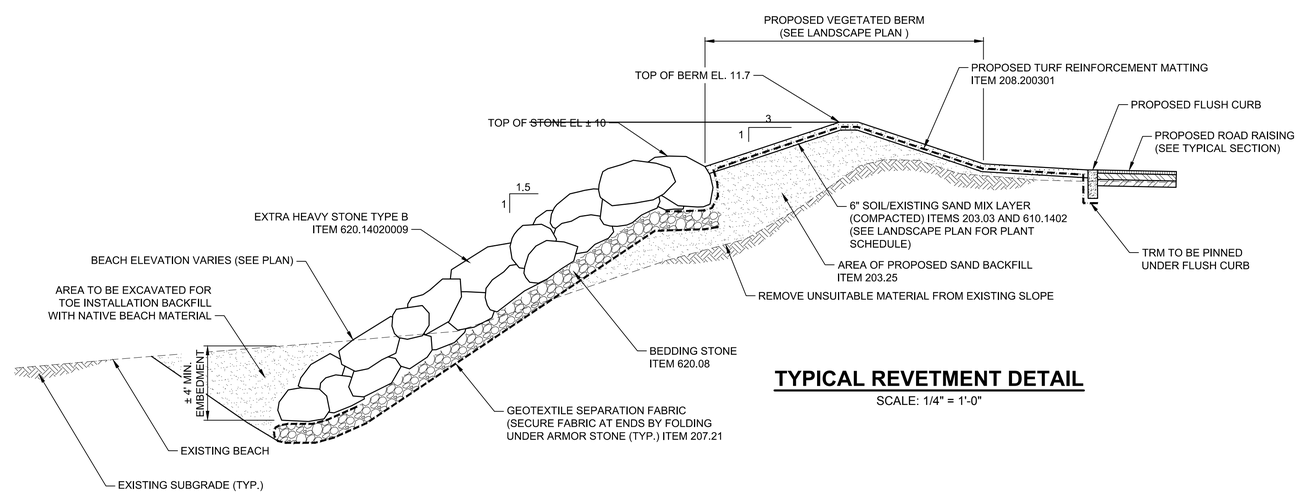
CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 14BW6 GAUGE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT BARRIER TEMPORARY
N.T.S.
ITEM 209.13



SOIL BORING LOCATION #1
NORTH SIDE
OAK BEACH RD
APPROX. 930 FEET EAST
OF HOUSE #221



TYPICAL REVETMENT DETAIL
SCALE: 1/4" = 1'-0"

60% DESIGN PLANS

No.	DATE	REVISION	BY:
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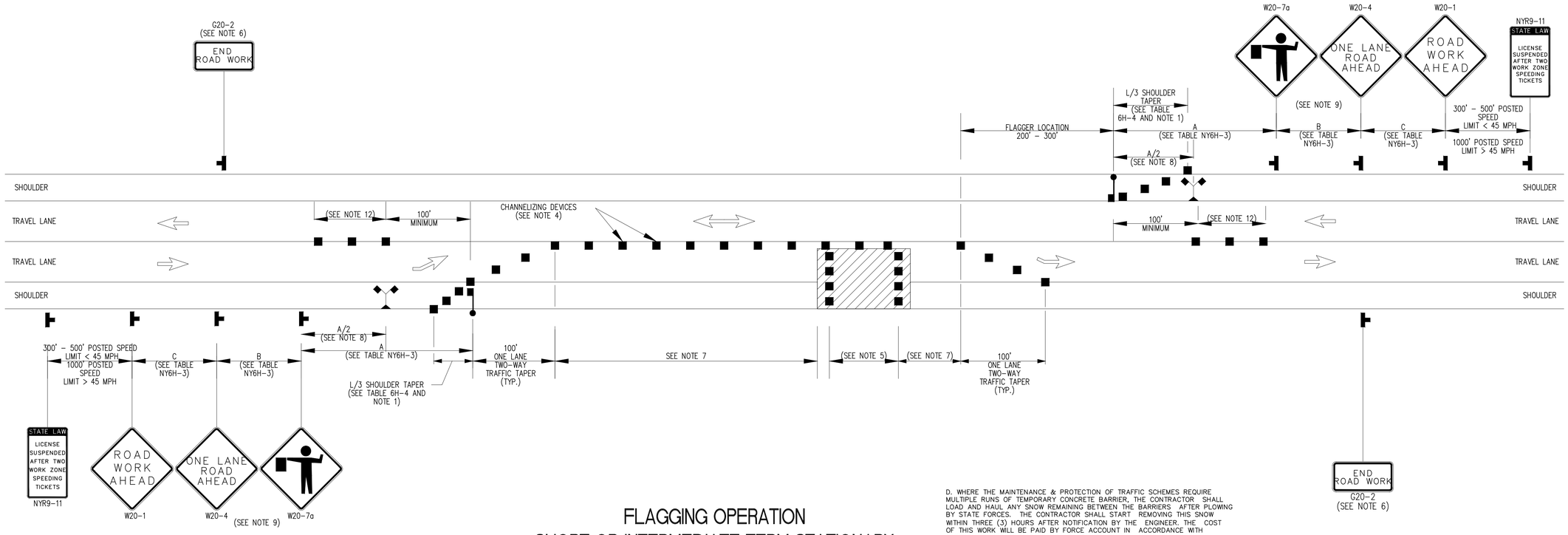
NEW YORK 11757

DWN. BY:	TK
CHK'D BY:	RS
DATE:	JULY 2018
JOB No.:	18110
CADD:	COV.DWG
SCALE:	AS SHOWN

DRAWING TITLE:
MISCELLANEOUS DETAILS-1
OAK BEACH COMMUNITY SHORELINE STABILIZATION AND ROADWAY IMPROVEMENTS
BABYLON, NEW YORK

DRAWING NUMBER:
DET - 1

SHEET: 4 OF 11



FLAGGING OPERATION
SHORT OR INTERMEDIATE TERM STATIONARY LANE CLOSURE ON 2-LANE 2-WAY ROADWAY

(NOT TO SCALE)

WORK ZONE TRAFFIC CONTROL NOTES:

1. WORK ZONE TRAFFIC CONTROL SCHEMES SHALL BE IN ACCORDANCE WITH THE PLANS, THE NATIONAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, NYS SUPPLEMENT, EI07-001, EI07--006, EI07--019, THE WORK ZONE TRAFFIC CONTROL (WORK ZONE TRAFFIC CONTROL CHECK LIST 06/22/07-23 VERSION OR AS ORDERED BY THE ENGINEER.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF TRAFFIC. MAINTENANCE OF TRAFFIC SCHEMES SHALL BE IN ACCORDANCE WITH THE PLANS, THE NATIONAL MUTCD, NYS SUPPLEMENT AND AS APPROVED OR DIRECTED BY THE ENGINEER. TRAFFIC SCHEMES SHOWN ON THE PLANS OR IN THE MUTCD ARE TO BE CONSIDERED MINIMUM REQUIREMENTS. THE ENGINEER MAY ORDER ADDITIONAL SIGNS, FLAGGERS, CONES, REFLECTORIZATION ETC., IF HE DEEMS IT NECESSARY.

3. THE CONTRACTOR MAY SUBMIT REVISIONS TO THIS PLAN FOR APPROVAL BY THE REGIONAL DIRECTOR OR HIS DESIGNEE.

4. UNDIVIDED HIGHWAYS: THE CONTRACTOR SHALL NOT WORK ON BOTH SIDES OF THE ROADWAY IN THE SAME AREA AT THE SAME TIME.

5. DIVIDED HIGHWAYS: THE CONTRACTOR SHALL NOT WORK ON BOTH SIDES OF ONE-WAY TRAFFIC (e.g. ON THE SHOULDER AND IN THE MEDIAN) IN THE SAME AREA AT THE SAME TIME.

6. WHEN THE CONTRACTOR IS WORKING WITHIN 10 FT OF A TRAVELED LANE, THE ENGINEER MAY REQUIRE THE ADJACENT TRAVEL LANE TO BE CLOSED.

7. ALL LANES MUST BE OPEN TO TRAFFIC BEFORE 10AM AND AFTER 3PM. NO LANE CLOSING ARE PERMITTED ON WEEKENDS OR HOLIDAYS. NIGHTTIME LANE CLOSINGS WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL FROM THE STATE PERMIT INSPECTOR.

   NO LANE CLOSINGS WILL BE PERMITTED ON NYS ROADWAYS ON HOLIDAYS:

   -FROM NOON ON THE FRIDAY BEFORE MEMORIAL DAY THROUGH LABOR DAY.
   -INDEPENDENCE DAY;
   -LABOR DAY;
   -VETERANS DAY;
   -FROM NOON THE DAY BEFORE THANKSGIVING DAY THROUGH THE SUNDAY FOLLOWING THANKSGIVING DAY;
   -THE DAY PRECEDING CHRISTMAS DAY;
   -CHRISTMAS DAY;
   -THE DAY BEFORE NEW YEAR'S DAY;
   -NEW YEAR'S DAY

   ALL LANES MUST BE OPEN TO TRAFFIC BEFORE 10 AM AND AFTER 3 PM.

   NO LANE CLOSURES ARE PERMITTED ON WEEKENDS OR HOLIDAYS.

   NIGHTTIME LANE CLOSINGS WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL FROM THE STATE PERMIT INSPECTOR.

8. THE FOLLOWING SHALL APPLY WHEN TRAVEL LANES ARE CLOSED: THE CONTRACTOR SHALL PLACE TWO PLASTIC DRUMS OR VERTICAL PANELS AT MAXIMUM 400 FT INTERVALS ADJACENT TO EACH OTHER IN THE MIDDLE OF EACH CLOSED LANE TO DISCOURAGE USE OF THE LANE BY VEHICLES. FOR THE FIRST 1000 FT OF CLOSURE AND FOR THE FIRST 1000 FT AFTER EACH ENTRANCE RAMP WITHIN THE CLOSURE, THIS INTERVAL SHALL BE REDUCED TO 200 FT. PLACEMENT OF THESE DRUMS OR VERTICAL PANELS SHALL BE IN ADDITION TO THE DEVICES SHOWN IN THE MAINTENANCE AND PROTECTION OF TRAFFIC SCHEMES OF THE MUTCD AND THOSE SHOWN ON THE PLANS.

9. WHENEVER WORK ZONE TRAFFIC CONTROL SCHEMES PROVIDING FOR ONE-LANE ROAD OPERATION ARE IN EFFECT, THE CONTRACTOR SHALL POSITION FLAGGERS AT THE LIMITS OF THE ONE-LANE ROAD OPERATION, AT ALL CROSS STREETS WITHIN THE ONE-LANE ROAD OPERATION, AT MAJOR DRIVEWAYS AND SUCH OTHER LOCATIONS AS REQUIRED BY THE ENGINEER TO CONTROL TRAFFIC. FLAGGERS SHALL BE EQUIPPED WITH TWO-WAY RADIOS, WHERE IN THE OPINION OF THE ENGINEER THE USAGE OF SUCH RADIOS IS NECESSARY TO CONTROL TRAFFIC. SUCH RADIOS SHALL HAVE SUFFICIENT TRANSMITTING POWER TO REACH ALL POINTS WITHIN THE LENGTH OF THE ONE-LANE ROAD OPERATION. GUIDELINES FOR THE USE OF SUCH RADIOS SHALL BE INCLUDED IN THE BASIC WORK ZONE TRAFFIC CONTROL ITEM.

10. WHEN CONES ARE USED IN CONTROLLING THE MOVEMENT OF TRAFFIC THROUGH WORK AREAS, THE CONTRACTOR SHALL TAKE STEPS AS NECESSARY TO PREVENT THE CONES FROM BEING BLOWN OVER OR DISPLACED BY PASSING VEHICLES. THE CONTRACTOR SHALL ACCOMPLISH THIS BY DOUBLING CONES, BY THE USE OF SAND BAG RINGS, OR BY OTHER SUCH MEANS AS MAY BE APPROVED BY THE ENGINEER WHICH SHALL PRESENT NO HAZARD TO MOTORISTS OR TO WORKERS IF THE CONES ARE STRUCK.

11. THE CONTRACTOR MUST NOTIFY THE ENGINEER, THE LOCAL COUNTY DEPARTMENT OF PUBLIC WORKS, LOCAL PUBLIC SCHOOLS, THE LOCAL COUNTY POLICE DEPARTMENT, AND THE TOWN FIRE DEPARTMENTS OF ALL DETOURS, PROPOSED STREET CLOSINGS, OR ANY WORK THAT MIGHT AFFECT THE MOBILITY OR ACCESS OF THE FIRE OR POLICE DEPARTMENT 5 WORKING DAYS IN ADVANCE OF THEIR IMPLEMENTATION. IN ADDITION, THE CONTRACTOR SHALL ENSURE THAT HYDRANTS AND ALARM BOXES ARE KEPT CLEAR AND AVAILABLE.

12. VARIOUS MAINTENANCE AND CONSTRUCTION SIGNS SPECIFIED IN PART 238 OF THE MUTCD ARE AVAILABLE IN THE STANDARD DIAMOND SHAPE AND AN ALTERNATE RECTANGULAR SHAPE. WHENEVER SUCH SIGNS ARE INCLUDED IN THIS CONTRACT, THE DIAMOND SHAPE SIGN SHALL BE USED, DESPITE OTHER INDICATIONS IN SECTION 238.1(C).

13. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 6F.02 OF THE MUTCD WHICH REQUIRES THAT WITH THE EXCEPTION OF THE RAILROAD ADVANCE WARNING SIGN, WARNING SIGNS USED IN CONJUNCTION WITH WORK ZONE ACTIVITIES SHOULD HAVE FLUORESCENT ORANGE BACKGROUNDS CLASS D WITH BLACK LETTERING OR SYMBOLS.

14. THE CONTRACTOR SHALL PLACE W8-1 "BUMP" SIGNS, W8-2 "DIP" SIGNS AND/OR W8-8 "ROUGH ROAD" SIGNS WHERE DIRECTED BY THE ENGINEER.

15. CONTRACTOR'S ATTENTION IS DIRECTED TO SUBSECTIONS 619-3.02 AND 645-3.17 OF THE STANDARD SPECIFICATIONS. EXISTING TRAFFIC SIGNS AND CONSTRUCTION SIGNS WITHIN THE WORK AREA WHICH ARE NO LONGER NEEDED, EVEN TEMPORARILY, OR ARE CONFLICTING, INAPPROPRIATE OR CONFUSING, SHALL BE REMOVED (SUBJECT TO THE APPROVAL OF THE ENGINEER) OR SHALL BE COVERED COMPLETELY WITH AN OPAQUE MATERIAL. THE COST OF THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR THE WORK ZONE TRAFFIC CONTROL ITEM.

16. IN ADDITION TO THE SIGNING REQUIRED IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, THE CONTRACTOR SHALL USE A FLASHING ARROW BOARD, INCLUDED IN ITEM 619.01 POSITIONED AT THE BEGINNING OF TAPER FOR ALL TRAVEL LANE CLOSINGS. ONE FLASHING ARROW BOARD WILL BE REQUIRED IN CONJUNCTION WITH THE LANE CLOSURE SHOWN IN FIGURE TASD-EI OF THE NYSDOT WORK ZONE TRAFFIC CONTROL, DATED OCTOBER 2005. THE FLASHING ARROW BOARD WILL NOT BE REQUIRED IN CONNECTION WITH SHOULDER CLOSINGS OR SIDE STREET LANE CLOSURES UNLESS THE ENGINEER ORDERS ITS USE.

17. ARROW BOARDS USING LIGHT EMITTING DIODES (LEDs) AS THE SOLE ILLUMINATING SOURCE WILL NOT BE PERMITTED.

    ARROW BOARDS SHALL DISPLAY A FLASHING ARROW FOR LANE CLOSURES. OTHER OPERATIONAL MODES SUCH AS SEQUENTIAL CHEVRONS, SEQUENTIAL ARROWS OR STEM ARROWS, ARE EXPLICITLY PROHIBITED FOR THESE APPLICATIONS, AND SHALL NOT BE USED ON DEPARTMENT PROJECTS.

    ARROW BOARDS UTILIZED FOR LANE SHIFTS SHALL BE SET TO 'CAUTION' MODE. THE FLASHING 'ARROW' DISPLAY SHALL NOT BE USED FOR LANE SHIFTS.

18. WHERE NECESSARY, OR AS REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL UTILIZE FLAGGERS AT DRIVEWAYS TO CONTROL TRAFFIC ENTERING THE TRAVEL WAY.

19. THE ENGINEER MAY ORDER TEMPORARY ASPHALT PATCHES AS NEEDED ON THE CONTRACT. THE HOT MIX ASPHALT USED FOR THIS WORK SHOULD BE AS DESIGNATED BY THE ENGINEER. COST FOR TEMPORARY ASPHALT PATCHING SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR THE MAINTENANCE AND PROTECTION OF TRAFFIC ITEM.

20. PROVISION FOR SNOW AND ICE REMOVAL OPERATIONS: IN ORDER TO ALLOW FOR SNOW AND ICE CONTROL BY STATE FORCES ON THE STATE HIGHWAYS AND BY LOCAL MUNICIPALITIES ON LOCAL ROADS, THE CONTRACTOR SHALL SCHEDULE HIS WORK IN ACCORDANCE WITH THE FOLLOWING:

    A. INTERFERENCE WITH SNOW PLOWING OPERATIONS BY DRUMS, BARRICADES AND OTHER TRAFFIC CONTROL EQUIPMENT SHALL BE KEPT TO A MINIMUM. ANY DEVICES DISTURBED OR DAMAGED BY SNOW AND ICE CONTROL OPERATIONS SHALL BE REPLACED AND/OR RESET AS NECESSARY AND AS SOON AS POSSIBLE BY THE CONTRACTOR.

    B. DRAINAGE FRAMES, GRATES AND COVERS AND OTHER CASTINGS SHALL NOT BE ADJUSTED IN A TRAVEL LANE UNLESS THE FINAL PAVEMENT COURSE IS TO BE PLACED PRIOR TO THE ONSET OF SNOW AND ICE WEATHER. STEEL PLATES, ETC. SHALL NOT PROTRUDE ABOVE THE ADJACENT PAVEMENT. IF ANY OF THESE PROTRUSIONS EXIST IN A NON-TRAVEL LANE PRIOR TO A SNOW AND ICE CONDITION, THEN TEMPORARY ASPHALT RAMPS MUST BE PLACED SO THAT FOR EVERY 1 MM OF RISE, THERE IS A 80 MM RUN OF RAMP.

    C. ALL PAVEMENT CUTS SHALL BE RESTORED TO THE ADJACENT PAVEMENT GRADE TO ELIMINATE RECESSED AREAS WHERE SNOW CANNOT BE PLOWED OR WHERE THE PLOWS MAY SNAG.

    D. WHERE THE MAINTENANCE & PROTECTION OF TRAFFIC SCHEMES REQUIRE MULTIPLE RUNS OF TEMPORARY CONCRETE BARRIER, THE CONTRACTOR SHALL LOAD AND HAUL ANY SNOW REMAINING BETWEEN THE BARRIERS AFTER PLOWING BY STATE FORCES. THE CONTRACTOR SHALL START REMOVING THIS SNOW WITHIN THREE (3) HOURS AFTER NOTIFICATION BY THE ENGINEER. THE COST OF THIS WORK WILL BE PAID BY FORCE ACCOUNT IN ACCORDANCE WITH SECTION 109-05 OF THE STANDARD SPECIFICATIONS.

21. THE CONTRACTOR SHALL SCHEDULE HIS OPERATIONS TO MINIMIZE THE INTERRUPTION OF PEDESTRIAN TRAFFIC. THE SIDEWALK ON ONE SIDE OF THE ROADWAY SHALL REMAIN OPEN AND PASSABLE AT ALL TIMES. DURING THE RECONSTRUCTION OF SIDEWALKS, PEDESTRIAN SAFETY AND PROPERTY ACCESS MUST BE MAINTAINED AT ALL TIMES TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR SHALL PLACE ALL UNDERGROUND APPURTENANCES UNDER THE SIDEWALK FIRST.

    AT LOCATIONS WHERE EXISTING SIDEWALK IS CLOSED, THE CONTRACTOR SHALL PLACE A TYPE III BARRICADE WITH MUTCD R9-9 "SIDEWALK CLOSED" SIGN.

22. THE CONTRACTOR SHALL MINIMIZE THE DURATION OF DROP-OFFS ADJACENT TO THE EXISTING TRAVEL LANES. THE CONTRACTOR IS NOT TO EXCAVATE THE SHOULDER AREA UNTIL THEY ARE PREPARED TO COMPLETE, IN A TIMELY MANNER, ALL SUBSEQUENT OPERATIONS TO COMPLETE THE PROPOSED WORK. IN THE EVENT OF CIRCUMSTANCES BEYOND THE CONTRACTOR'S CONTROL, SUCH DROP-OFFS SHALL BE ELIMINATED BY OR AT THE EXPENSE OF THE CONTRACTOR AT THE END OF THE FORTY-EIGHTH HOUR AFTER THE LAST TIME THE WORK FORCE ACTIVELY PURSUED CONSTRUCTION IN THE DROP-OFF AREA. NO DROP-OFF GREATER THAN 6 INCHES IS TO REMAIN OVER A WEEKEND OR HOLIDAY. A DROP-OFF IS CONSIDERED ELIMINATED IF TAPERED AWAY BY A 1 ON 4 SLOPE OR FLATTER.

23. PERMANENT PAVEMENT MARKINGS SHALL BE DONE IMMEDIATELY AFTER TOP COURSE PAVING OPERATIONS ARE COMPLETE.

24. PAVEMENT MARKING LOCATIONS, SIZES AND LENGTHS ON NYS ROADWAYS SHALL BE AS SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER RESPONSIBLE FOR CONSTRUCTION INSPECTION.

25. THE CONTRACTOR MUST ATTEMPT TO REOPEN ALL TRAVEL LANES AND INSTALL THE 'NON-WORKING HOURS' SCHEME FOR OVERNIGHT PERIODS. CERTAIN EXCEPTIONS MAY APPLY FOR WHICH THE 'WORK PERIOD CLOSURE' SCHEME MAY BE LEFT OVERNIGHT. THE CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR THESE OVERNIGHT LANE CLOSURE BY THE ENGINEER RESPONSIBLE FOR CONSTRUCTION INSPECTION.

26. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER RESPONSIBLE FOR CONSTRUCTION INSPECTION, FOR APPROVAL, SHOP DRAWINGS INDICATING PROPOSED METHOD OF REMOVAL OF EXISTING PAVEMENT MARKINGS. ALL METHODS SHALL CONFORM TO THE REQUIREMENTS OF ITEM 635.0103, CLEANING AND PREPARATION OF PAVEMENT SURFACE-LINES.

27. ALL TEMPORARY SIGNS FOR MPT SHALL SHALL CONFORM TO THE REQUIREMENTS OF ITEM 619.02 - CONSTRUCTION SIGNS.

28. THE TRAVEL LANE SHALL BE SWEPT CLEAN BY THE CONTRACTOR BEFORE THE LANE IS REOPENED TO TRAFFIC.

29. THE CONTRACTOR SHALL NOT REMOVE MORE THAN 1500 FEET OF EXISTING PAVEMENT PRIOR TO PLACING NEW PAVEMENT. NEW PAVEMENT AREAS MUST INCLUDE THE BINDER COURSE BEFORE ADDITIONAL PAVEMENT EXCAVATION CAN BEGIN.

30. THE CONTRACTOR SHALL INSTALL TYPE C STEADY BURNING LIGHTS ON EVERY OTHER DRUM FOR OVERNIGHT SHOULDER CLOSURE.

31. THE CONTRACTOR SHALL REFER TO SECTION 6C.08 OF THE MUTCD FOR APPROPRIATE TAPER LENGTHS.

NOTES:

1. WHEN PAVED SHOULDERS HAVING A WIDTH OF 8' OR MORE ARE CLOSED, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK AREA AND DIRECT VEHICULAR TRAFFIC TO REMAIN IN THE TRAVEL WAY.

2. WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE ROADWAY WITHIN A WORK ZONE TRAFFIC CONTROL AREA, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES AND/OR FLAGGERS SHALL BE PLACED AS NEEDED. ADDITIONAL FLAGGERS SHALL BE LOCATED AT ALL INTERSECTIONS AND COMMERCIAL DRIVEWAYS LOCATED WITHIN OR NEAR THE ACTIVE WORK SPACE. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.

3. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.

4. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.

5. TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 1500'.

6. THE END ROAD WORK SIGN (G20-2) SHALL BE PLACED A MAXIMUM OF 500' PAST THE END OF THE WORK SPACE.

7. WHERE DIRECTED BY THE ENGINEER, A BUFFER SPACE SHALL BE PROVIDED IN ORDER TO LOCATE THE ONE-LANE, TWO-WAY TRAFFIC TAPER PRIOR TO ANY HORIZONTAL OR VERTICAL CURVE, IN ORDER TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGERS AND/OR A QUEUE OF STOPPED VEHICLES.

8. THE FLAG TREE SHALL BE LOCATED ON THE SHOULDER, AT APPROXIMATELY THE DISTANCE BETWEEN THE FLAGGER SIGN (W20-7a) AND THE FLAGGER.

9. FLAGGER SIGN (W20-7a) AND ONE LANE ROAD AHEAD SIGN (W20-4) SHALL BE REMOVED, COVERED OR TURNED AWAY FROM ROAD USERS WHEN FLAGGING OPERATIONS ARE NOT OCCURRING.

10. FLAGGER AND FLAG TREE SHALL BE ILLUMINATED TO LEVEL II ILLUMINATION DURING NIGHT TIME OPERATIONS.

11. ALL FLAGGERS SHALL USE 24" (MIN.) OCTAGON SHAPED STOP/SLOW PADDLES HAVING 6' STAFF.

12. CENTERLINE CHANNELIZING DEVICES ARE OPTIONAL AND MAY BE ELIMINATED WHERE SPACE CONSTRAINTS EXIST.

60% DESIGN PLANS

No.	DATE	REVISION	BY:
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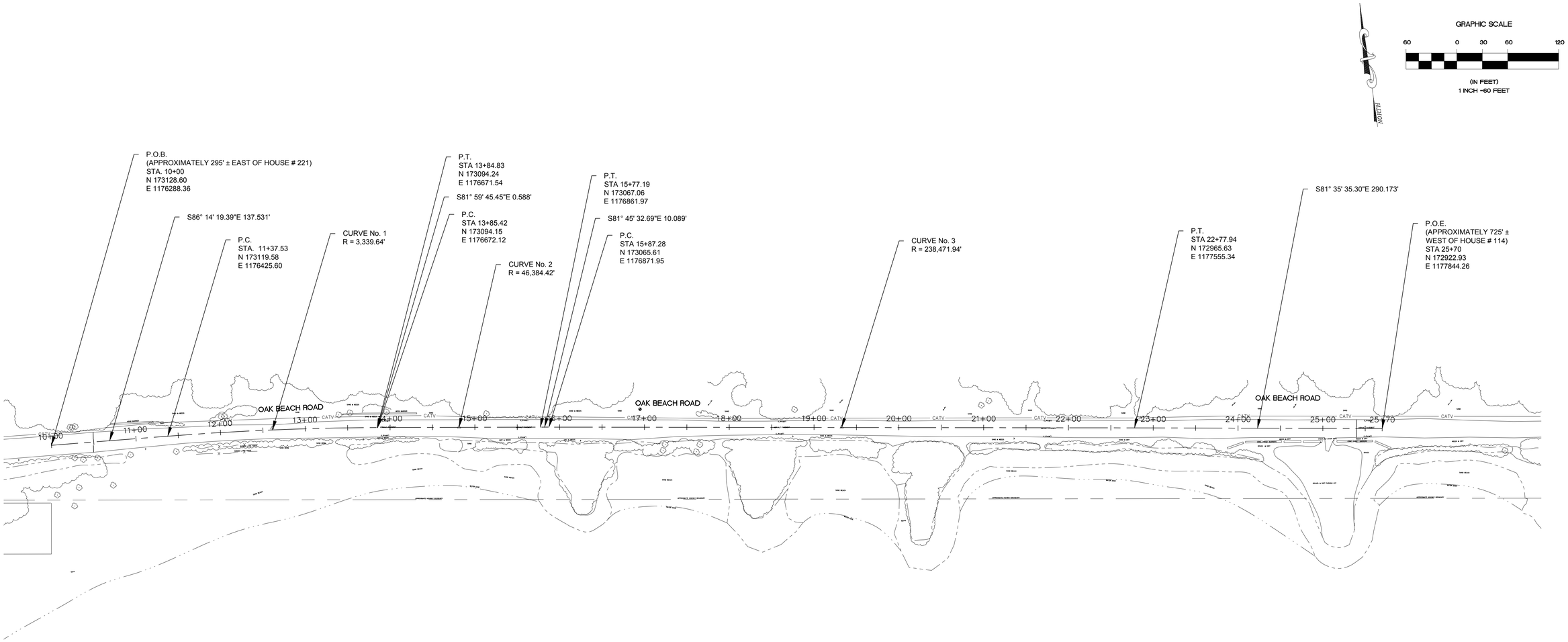
NEW YORK 11757

DWN. BY:	TK
CHKD BY:	RS
DATE:	JULY 2018
JOB No.:	18110
CADD:	COV.DWG
SCALE:	AS SHOWN

DRAWING TITLE:
WORK ZONE TRAFFIC CONTROL-1
OAK BEACH COMMUNITY SHORELINE
STABILIZATION AND ROADWAY IMPROVEMENTS
BABYLON, NEW YORK

DRAWING NUMBER:
WZTC-1

SHEET: 5 OF 11



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	E 1176425.60
P.T.	STA. 13+84.83
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Δ	04-14'-34.0794"
L	247.300
T	123.710

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	E 1176672.12
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T	95.880

CURVE No. 3	
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P.T.	STA. 22+77.94
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	E 1289254.2863
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Δ	00-09'-57.2394"
L	690.660
T	345.330

60% DESIGN PLANS

No.	DATE	REVISION	BY:
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CONSULTANT:
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572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747-2188
PHONE: 631.427.5665 • FAX: 631.427.5620 • NELSONPOPE.COM

CLIENT:
TOWN OF BABYLON
200 EAST SUNRISE HIGHWAY
LINDENHURST, NEW YORK 11757

DWN. BY:	TK
CHK'D BY:	RS
DATE:	July 18
JOB No.:	18110
CADD:	18110_CP.DWG
SCALE:	AS SHOWN

DRAWING TITLE:
ALIGNMENT PLAN - 1
OAK BEACH ROAD, OAK BEACH COMMUNITY
BABYLON, NEW YORK

DRAWING NUMBER:
AP-1

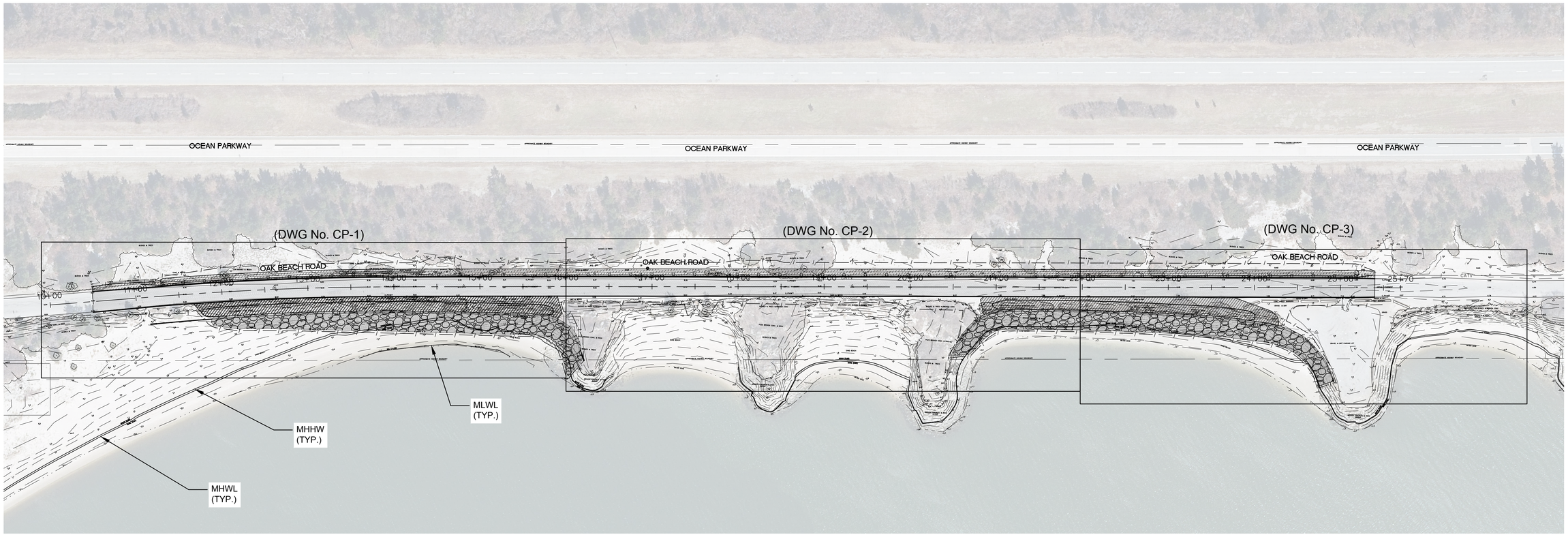
SHEET: 6 OF 11

GRAPHIC SCALE

60 0 30 60 120

(IN FEET)
1 INCH =60 FEET

NORTH



LEGEND:

- STONE REVETMENT
- PLANTED/ STABILIZED BERM
- BIO SWALE AREA
- FULL DEPTH ASPHALT RECONSTRUCTION
- FLUSH CONCRETE CURB
- DECORATIVE TIMBER RAIL

TIDAL DATA

MHHW (MEAN SPRING TIME HIGH WATER LEVEL) (EL 0.99)

MHWL (MEAN HIGH WATER LEVEL) (EL 0.81)

MLWL (MEAN LOW WATER LEVEL) (EL -1.32)

QUANTITIES

EXISTING STONE REVETMENT TO BE REMOVED: ± 1,800 CY
PROPOSED ARMOR STONE: ± 2,200 CY
PROPOSED BEDDING STONE: ± 600 CY
PROPOSED PLACEMENT OF STONE SEAWARD OF MHWL: ± 2,370 SF

EXISTING AREA OF VEGETATION TO BE REMOVED (INCLUDING GROUND COVERS): ± 24,000 SF
EXISTING AREA OF TREES (INCLUDING SHRUBS) TO BE REMOVED: ±14,500 SF

PROPOSED AREA OF ROADWAY PAVEMENT: ± 32,850 SF

PROPOSED CLEAN SAND BACKFILL: ± 450 CY

60% DESIGN PLANS

No.	DATE	REVISION	BY:
-	-	-	-

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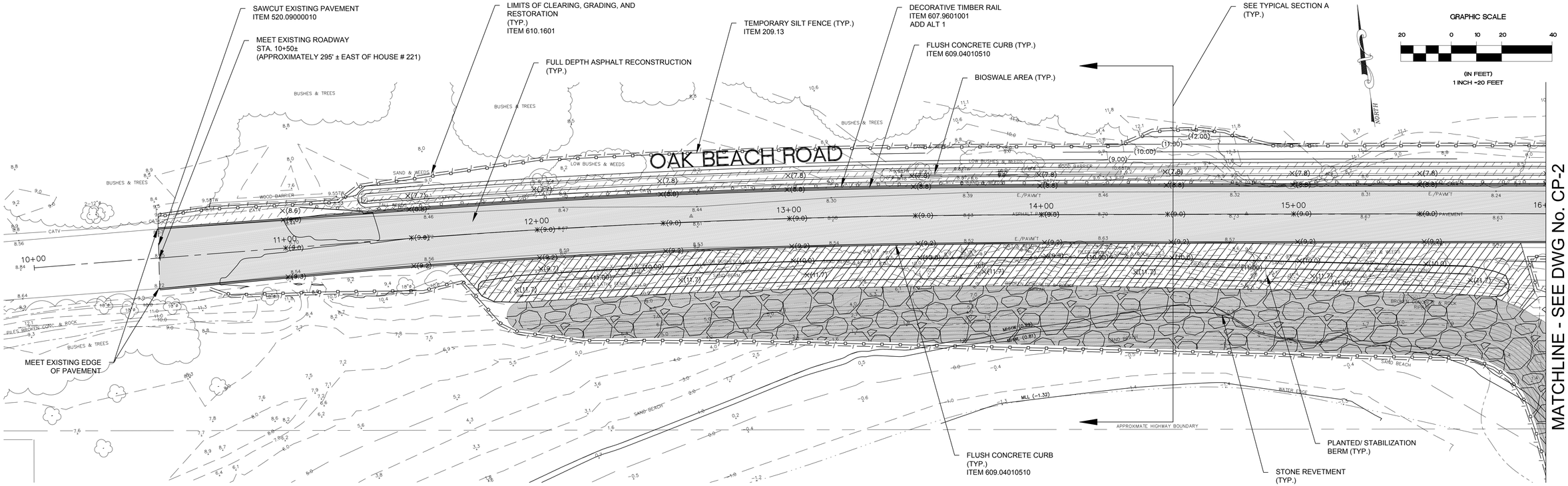
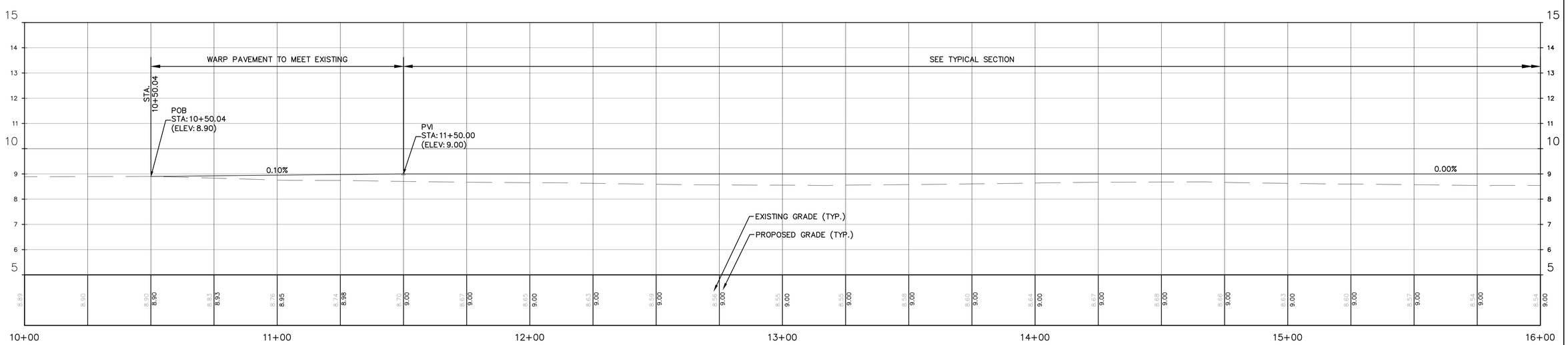
SCALE:	AS SHOWN

DRAWING TITLE:
OVERALL PLAN - 1
OAK BEACH ROAD, OAK BEACH COMMUNITY
BABYLON, NEW YORK

DRAWING NUMBER:
OVR-1

SHEET: 7 OF 11





OAK BEACH ROAD PROFILE

STA.10+00 TO 16+00
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

60% DESIGN PLANS

No.	DATE	REVISION	BY:
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DATE:	July 18
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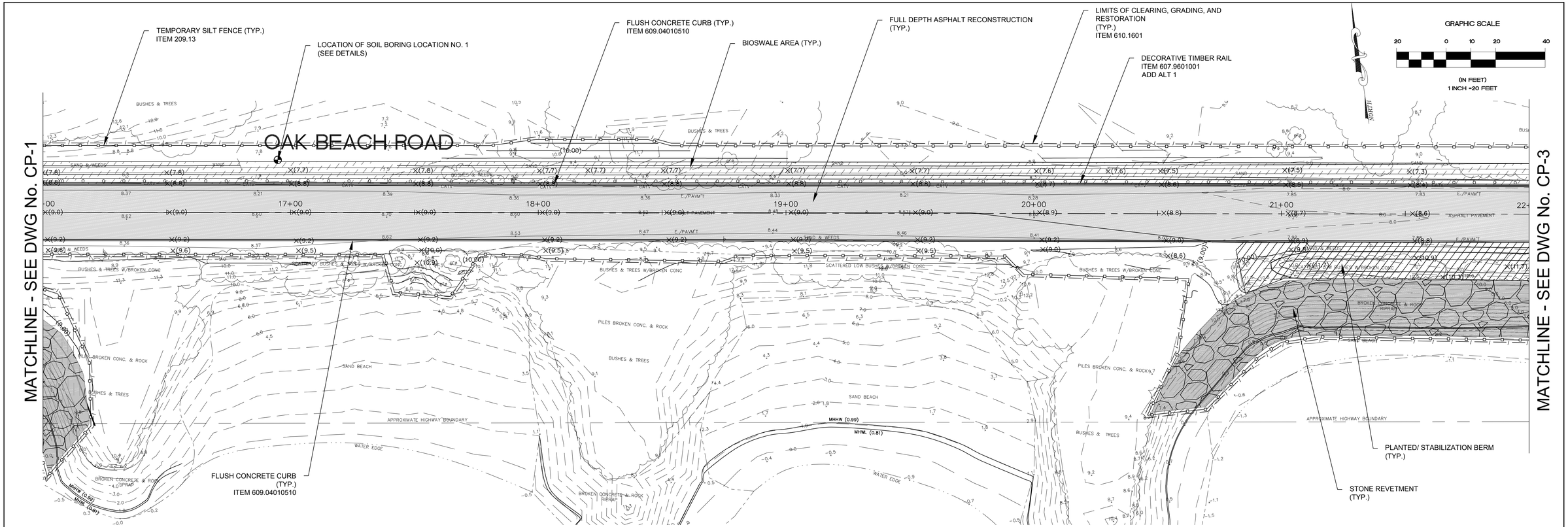
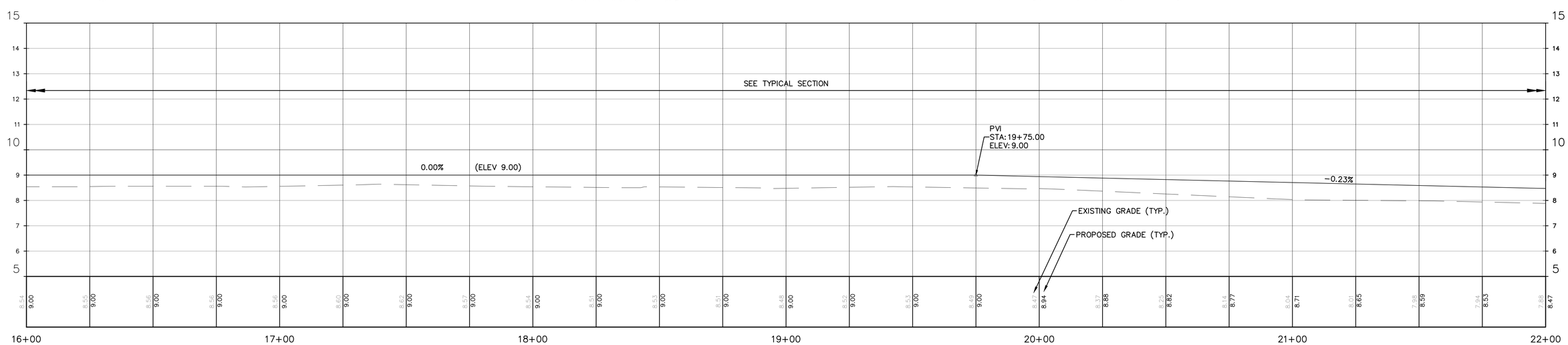
SCALE:	AS SHOWN

DRAWING TITLE:
CONSTRUCTION PLAN - 1
OAK BEACH ROAD, OAK BEACH COMMUNITY
BABYLON, NEW YORK

DRAWING NUMBER:
CP-1

SHEET: 8 OF 11





OAK BEACH ROAD PROFILE

STA.16+00 TO 22+00
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

60% DESIGN PLANS

No.	DATE	REVISION	BY:
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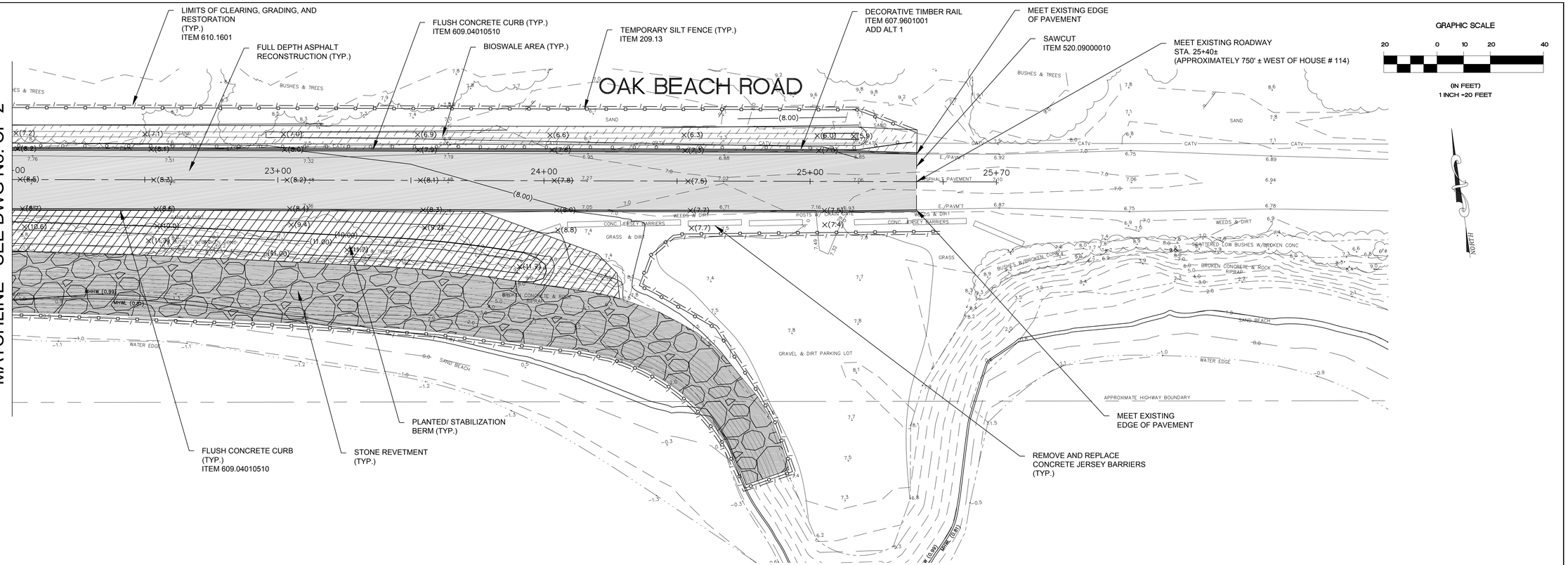
DWN. BY:	TK
CHK'D BY:	RS
DATE:	July 18
JOB No.:	18110
CADD:	18110_CP.DWG
SCALE:	AS SHOWN

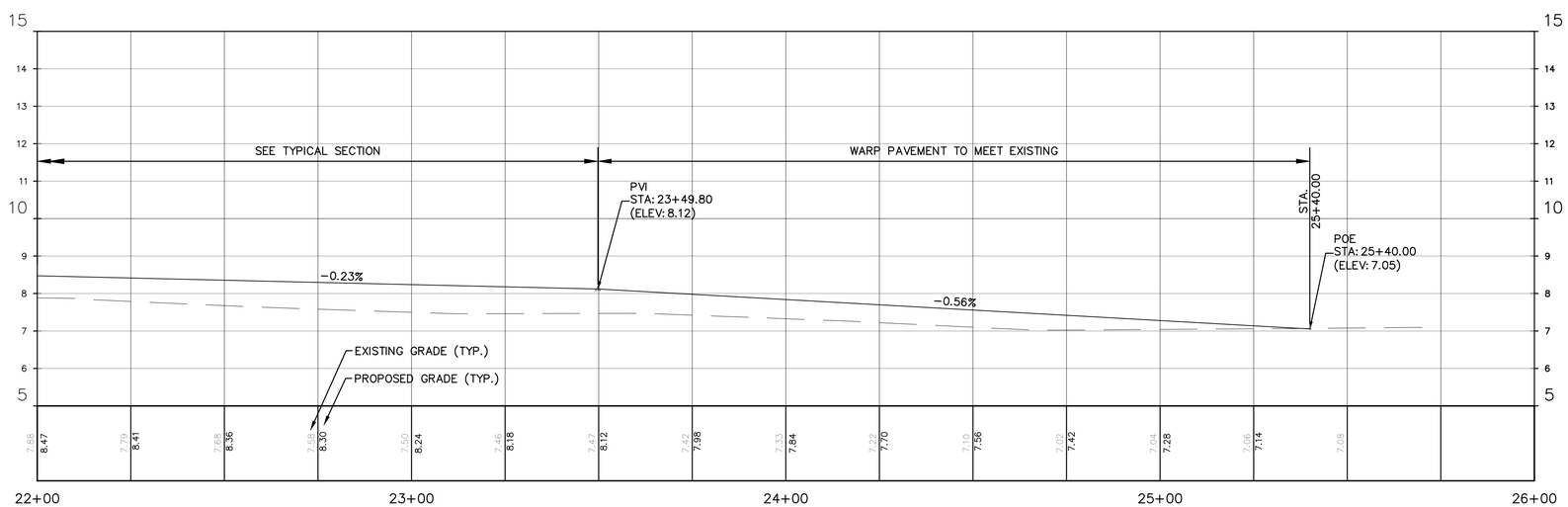
DRAWING TITLE:
CONSTRUCTION PLAN - 2
OAK BEACH ROAD, OAK BEACH COMMUNITY
BABYLON, NEW YORK

DRAWING NUMBER:
CP-2

SHEET: 9 OF 11

MATCHLINE - SEE DWG No. CP-2





OAK BEACH ROAD PROFILE

STA. 22+00 TO 25+70
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

60% DESIGN PLANS

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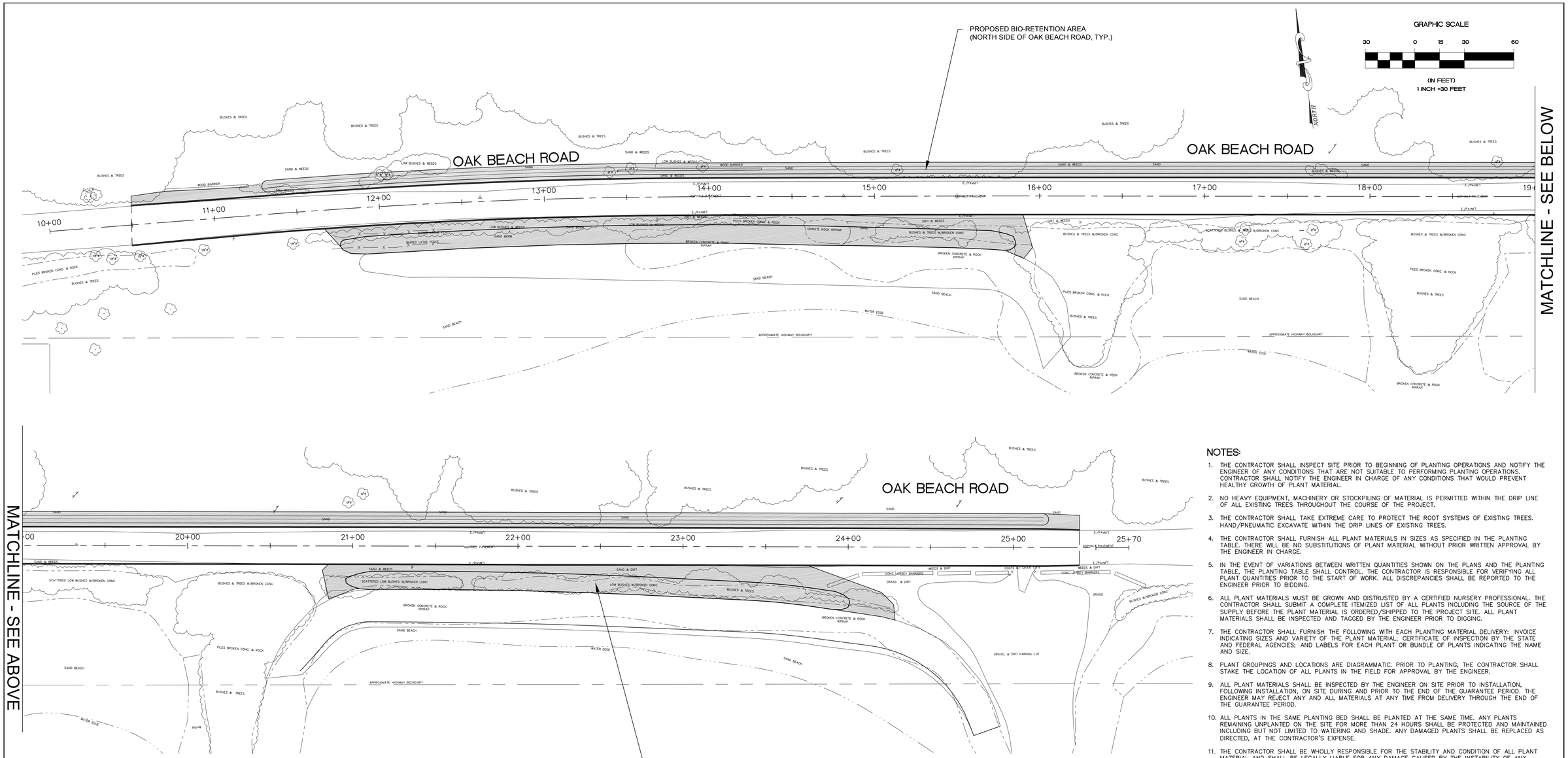
DRAWING TITLE:
CONSTRUCTION PLAN - 3
OAK BEACH ROAD, OAK BEACH COMMUNITY
BABYLON, NEW YORK

DRAWING NUMBER:
CP-3

SHEET: 10 OF 11



NOTES:

1. THE CONTRACTOR SHALL INSPECT SITE PRIOR TO BEGINNING OF PLANTING OPERATIONS AND NOTIFY THE ENGINEER OF ANY CONDITIONS THAT ARE NOT SUITABLE TO PERFORMING PLANTING OPERATIONS. CONTRACTOR SHALL NOTIFY THE ENGINEER IN CHARGE OF ANY CONDITIONS THAT WOULD PREVENT HEALTHY GROWTH OF PLANT MATERIAL.
2. NO HEAVY EQUIPMENT, MACHINERY OR STOCKPILING OF MATERIAL IS PERMITTED WITHIN THE DRIP LINE OF ALL EXISTING TREES THROUGHOUT THE COURSE OF THE PROJECT.
3. THE CONTRACTOR SHALL TAKE EXTREME CARE TO PROTECT THE ROOT SYSTEMS OF EXISTING TREES. HAND/PNEUMATIC EXCAVATE WITHIN THE DRIP LINES OF EXISTING TREES.
4. THE CONTRACTOR SHALL FURNISH ALL PLANT MATERIALS IN SIZES AS SPECIFIED IN THE PLANTING TABLE. THERE WILL BE NO SUBSTITUTIONS OF PLANT MATERIAL WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER IN CHARGE.
5. IN THE EVENT OF VARIATIONS BETWEEN WRITTEN QUANTITIES SHOWN ON THE PLANS AND THE PLANTING TABLE, THE PLANTING TABLE SHALL CONTROL. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES PRIOR TO THE START OF WORK. ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO BIDDING.
6. ALL PLANT MATERIALS MUST BE GROWN AND DISTRUSTED BY A CERTIFIED NURSERY PROFESSIONAL. THE CONTRACTOR SHALL SUBMIT A COMPLETE ITEMIZED LIST OF ALL PLANTS INCLUDING THE SOURCE OF THE SUPPLY BEFORE THE PLANT MATERIAL IS ORDERED/SHIPPED TO THE PROJECT SITE. ALL PLANT MATERIALS SHALL BE INSPECTED AND TAGGED BY THE ENGINEER PRIOR TO DIGGING.
7. THE CONTRACTOR SHALL FURNISH THE FOLLOWING WITH EACH PLANTING MATERIAL DELIVERY: INVOICE INDICATING SIZES AND VARIETY OF THE PLANT MATERIAL; CERTIFICATE OF INSPECTION BY THE STATE AND FEDERAL AGENCIES; AND LABELS FOR EACH PLANT OR BUNDLE OF PLANTS INDICATING THE NAME AND SIZE.
8. PLANT GROUPINGS AND LOCATIONS ARE DIAGRAMMATIC. PRIOR TO PLANTING, THE CONTRACTOR SHALL STAKE THE LOCATION OF ALL PLANTS IN THE FIELD FOR APPROVAL BY THE ENGINEER.
9. ALL PLANT MATERIALS SHALL BE INSPECTED BY THE ENGINEER ON SITE PRIOR TO INSTALLATION, FOLLOWING INSTALLATION, ON SITE DURING AND PRIOR TO THE END OF THE GUARANTEE PERIOD. THE ENGINEER MAY REJECT ANY AND ALL MATERIALS AT ANY TIME FROM DELIVERY THROUGH THE END OF THE GUARANTEE PERIOD.
10. ALL PLANTS IN THE SAME PLANTING BED SHALL BE PLANTED AT THE SAME TIME. ANY PLANTS REMAINING UNPLANTED ON THE SITE FOR MORE THAN 24 HOURS SHALL BE PROTECTED AND MAINTAINED INCLUDING BUT NOT LIMITED TO WATERING AND SHADE. ANY DAMAGED PLANTS SHALL BE REPLACED AS DIRECTED, AT THE CONTRACTOR'S EXPENSE.
11. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR THE STABILITY AND CONDITION OF ALL PLANT MATERIAL AND SHALL BE LEGALLY LIABLE FOR ANY DAMAGE CAUSED BY THE INSTABILITY OF ANY PLANT MATERIALS DUE TO THE CONSTRUCTION PROCESS.
12. THE CONTRACTOR IS RESPONSIBLE FOR THE FULL AND COMPLETE RESTORATION OF ALL AREAS WITHIN THE CONTRACT LIMITS AS WELL AS THOSE AREAS JUST OUTSIDE THE LIMITS OF CONSTRUCTION WHICH MAY HAVE BEEN DISTURBED DUE TO THE CONSTRUCTION PROCESSES.
13. FOR SPECIFICATIONS, REFER TO THE ASSOCIATED NYSDOT ITEM NUMBERS INCLUDING BUT NOT LIMITED TO:
    - a.610.0501 – FERTILIZER
    - b.610.1101 – MULCH
    - c.610.1201 – PERMEABLE WEED CONTROL LANDSCAPE FABRIC
    - d.610.1404 – TOPSOIL – SPECIAL PLANTING MIX
    - e.610.19 – WATERING VEGETATION
    - f. 610.21 – MOWING
    - g.611.19 – POST PLANTING CARE

PROPOSED PLANTED BERM AREA
(SOUTH SIDE OF OAK BEACH ROAD, TYP.)

PLANTING SCHEDULE

SYMBOL	QTY.	ABBV.	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	ITEM #
	100	MP	MYRICA PENSYLVANICA	BAYBERRY	#3 CONTAINER	3' O.C.	611.0443
	100	BH	BACCHARIS HELIMIFOLIA	GROUNDSEL BUSH	#3 CONTAINER	3' O.C.	611.0443
	100	IF	IVA FRUTESCENS	MARSH ELDERBERRY	#3 CONTAINER	3' O.C.	611.0443
	100	RV	ROSA VIRGINIANA	VIRGINIA ROSE	#3 CONTAINER	3' O.C.	611.0443
	100	SS	SOLIDAGO SEMPERVIRENS	SEASIDE GOLDENROD	#3 CONTAINER	3' O.C.	611.0443
	100	PM	PRUNUS MARITIMA	BEACH PLUM SHRUB	#3 CONTAINER	3' O.C.	611.0443
	21,500	AB	AMMOPHILA BREVILIGULATA	BEACH GRASS	PLUG TO #1 CONTAINER	1' O.C.	611.0611

W.I.P.

60% DESIGN PLANS

No.	DATE	REVISION	BY:
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LINDENHURST, NEW YORK 11757

DWN. BY:	TK
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DATE:	July 18
JOB No.:	18110
CADD:	18110_CP.DWG
SCALE:	AS SHOWN

DRAWING TITLE:
LANDSCAPE PLAN - 1
OAK BEACH ROAD, OAK BEACH COMMUNITY
BABYLON, NEW YORK

DRAWING NUMBER:
LP-1

SHEET: 11 OF 11

Attachment 2

NEW YORK STATE DEPARTMENT OF STATE
COASTAL MANAGEMENT PROGRAM

Federal Consistency Assessment Form

An applicant, seeking a permit, license, waiver, certification or similar type of approval from a federal agency which is subject to the New York State Coastal Management Program (CMP), shall complete this assessment form for any proposed activity that will occur within and/or directly affect the State's Coastal Area. This form is intended to assist an applicant in certifying that the proposed activity is consistent with New York State's CMP as required by U.S. Department of Commerce regulations (15 CFR 930.57). It should be completed at the time when the federal application is prepared. The Department of State will use the completed form and accompanying information in its review of the applicant's certification of consistency.

A. APPLICANT (please print)

1. Name: State of New York c/o Wayne Horsley

2. Address: NYS Office of Parks, Recreation and Historic Preservation PO Box 247 , Babylon NY 11702

3. Telephone: Area Code (631) 669-1000

B. PROPOSED ACTIVITY

1. Brief description of activity:

The proposed project includes the restoration of a 22' x 1489' portion of the roadway and stabilization of select portions of the adjacent shoreline to protect the roadway from future erosion events. A vegetated bioswale will be constructed north of the roadway and a vegetated berm is proposed south of the roadway landward of the proposed shoreline stabilization structures.

2. Purpose of activity:

To restore the existing roadway that serves the residential properties to the west of the project site and reduce the potential damage to the roadway and shoreline from erosion events.

3. Location of activity:

Suffolk	Babylon	Oak Beach Road
County	City, Town, or Village	Street or Site Description

4. Type of federal permit/license required: NWP 13

5. Federal application number, if known: _____

6. If a state permit/license was issued or is required for the proposed activity, identify the state agency and provide the application or permit number, if known:

_____

C. COASTAL ASSESSMENT Check either "YES" or "NO" for each of these questions. The numbers following each question refer to the policies described in the CMP document (see footnote on page 2) which may be affected by the proposed activity.

1. Will the proposed activity result in any of the following:	YES	NO
a. Large physical change to a site within the coastal area which will require the preparation of an environmental impact statement? (11, 22, 25, 32, 37, 38, 41, 43)	☐	☒
b. Physical alteration of more than two acres of land along the shoreline, land under water or coastal waters? (2, 11, 12, 20, 28, 35, 44)	☐	☒
c. Revitalization/redevelopment of a deteriorated or underutilized waterfront site? (1)	☐	☒
d. Reduction of existing or potential public access to or along coastal waters? (19, 20)	☐	☒
e. Adverse effect upon the commercial or recreational use of coastal fish resources? (9,10)	☐	☒
f. Siting of a facility essential to the exploration, development and production of energy resources in coastal waters or on the Outer Continental Shelf? (29)	☐	☒
g. Siting of a facility essential to the generation or transmission of energy? (27)	☐	☒
h. Mining, excavation, or dredging activities, or the placement of dredged or fill material in coastal waters? (15, 35)	☒	☐
i. Discharge of toxics, hazardous substances or other pollutants into coastal waters? (8, 15, 35)	☐	☒
j. Draining of stormwater runoff or sewer overflows into coastal waters? (33)	☐	☒
k. Transport, storage, treatment, or disposal of solid wastes or hazardous materials? (36, 39)	☐	☒
l. Adverse effect upon land or water uses within the State's small harbors? (4)	☐	☒

2. Will the proposed activity affect or be located in, on, or adjacent to any of the following:	YES	NO
a. State designated freshwater or tidal wetland? (44)	☒	☐
b. Federally designated flood and/or state designated erosion hazard area? (11, 12, 17,)	☒	☐
c. State designated significant fish and/or wildlife habitat? (7)	☐	☒
d. State designated significant scenic resource or area? (24)	☐	☒
e. State designated important agricultural lands? (26)	☐	☒
f. Beach, dune or barrier island? (12)	☒	☐
g. Major ports of Albany, Buffalo, Ogdensburg, Oswego or New York? (3)	☐	☒
h. State, county, or local park? (19, 20)	☐	☒
i. Historic resource listed on the National or State Register of Historic Places? (23)	☐	☒

3. Will the proposed activity require any of the following:	YES	NO
a. Waterfront site? (2, 21, 22)	☒	☐
b. Provision of new public services or infrastructure in undeveloped or sparsely populated sections of the coastal area? (5)	☐	☒
c. Construction or reconstruction of a flood or erosion control structure? (13, 14, 16)	☒	☐
d. State water quality permit or certification? (30, 38, 40)	☐	☒
e. State air quality permit or certification? (41, 43)	☐	☒

4. Will the proposed activity occur within and/or affect an area covered by a State approved local waterfront revitalization program? (see policies in local program document)	☐	☒

D. ADDITIONAL STEPS

1. If all of the questions in Section C are answered "NO", then the applicant or agency shall complete Section E and submit the documentation required by Section F.

2. If any of the questions in Section C are answered "YES", then the applicant or agent is advised to consult the CMP, or where appropriate, the local waterfront revitalization program document*. The proposed activity must be analyzed in more detail with respect to the applicable state or local coastal policies. On a separate page(s), the applicant or agent shall: (a) identify, by their policy numbers, which coastal policies are affected by the activity, (b) briefly assess the effects of the activity upon the policy; and, (c) state how the activity is consistent with each policy. Following the completion of this written assessment, the applicant or agency shall complete Section E and submit the documentation required by Section F.

E. CERTIFICATION

The applicant or agent must certify that the proposed activity is consistent with the State's CMP or the approved local waterfront revitalization program, as appropriate. If this certification cannot be made, the proposed activity shall not be undertaken. If this certification can be made, complete this Section.

"The proposed activity complies with New York State's approved Coastal Management Program, or with the applicable approved local waterfront revitalization program, and will be conducted in a manner consistent with such program."

Applicant/Agent's Name: Hannah Emouna, Nelson Pope & Voorhis

Address: 572 Walt Whitman Road, Melville, NY 11747

Telephone: Area Code (631) 427-5665

Applicant/Agent's Signature: Hannah Emouna Date: 8/22/18

F. SUBMISSION REQUIREMENTS

1. The applicant or agent shall submit the following documents to the **New York State Department of State, Office of Coastal, Local Government and Community Sustainability, Attn: Consistency Review Unit, 1 Commerce Plaza, 99 Washington Avenue - Suite 1010, Albany, New York 12231.**

a. Copy of original signed form.
b. Copy of the completed federal agency application.
c. Other available information which would support the certification of consistency.

2. The applicant or agent shall also submit a copy of this completed form along with his/her application to the federal agency.

3. If there are any questions regarding the submission of this form, contact the Department of State at (518) 474-6000.

*These state and local documents are available for inspection at the offices of many federal agencies, Department of environmental Conservation and Department of State regional offices, and the appropriate regional and county planning agencies. Local program documents are also available for inspection at the offices of the appropriate local government.

OAK BEACH COMMUNITY SHORELINE STABILIZATION AND ROADWAY REHABILITATION CONFORMANCE WITH NEW YORK STATE COASTAL ZONE MANAGEMENT POLICIES

1. Will the proposed activity <u>result</u> in any of the following:

h) Mining, excavation or dredging activities, or the placement of dredged or fill material in coastal waters? (15, 35)

Policy 15 *Mining, excavation, or dredging in coastal waters should not significantly interfere with the natural coastal process which supply beach materials to land adjacent to such waters and shall be undertaken in a manner which will not cause an increase in erosion of such land.*

Response: The proposed project is to prevent further erosion events that could pose safety issues to the adjacent roadway. The adjacent roadway is the only access point for the residential properties located to the west of the project site. The proposed project area contains areas of previous shoreline stabilization efforts and concrete pieces and large stones used for shoreline stabilization are visible on the attached imagery. The project will supplement the existing features.

Policy 35 *Dredging and dredge spoil disposal in coastal waters will be undertaken in a manner that meets existing State dredging permit requirements, and protects significant fish and wildlife habitats, scenic resources, natural protective features, important agricultural lands, and wetlands.*

Response: No formal dredging is proposed.

2. Will the proposed activity <u>affect</u> or be <u>located</u> in, on, or adjacent to any of the following:

a) State designated freshwater or tidal wetlands? (44)

Policy 44 *Preserve and protect tidal and freshwater wetlands and preserve the benefits derived from these areas.*

Response: The proposed project will enhance the shoreline stabilization features currently onsite. The project includes the creation of a bioswale on the north side of the roadway designed to treat stormwater runoff from the roadway prior to entering the adjacent wetland. Native plantings will be utilize3d within the bioswale area and on the south side of the roadway landward of the shoreline stabilization areas.

b) Federally designated flood and/or state designated erosion hazard area? (11, 12, 17)

Policy 11 *Buildings and other structures will be sited in the coastal area so as to minimize damage to property and the endangering of human lives caused by flooding and erosion.*

Response: The proposed shoreline stabilization structures will help prevent the adjacent roadway from damage during erosion events. The existing roadway is the only access point for the residential properties to the west side of the project site.

Policy 12 *Activities or development in the coastal area will be undertaken so as to minimize damage to natural resources and property from flooding and erosion by protecting natural protective features including beaches, dunes, barrier islands and bluffs.*

Response: The proposed project will not cause erosion and will prevent damage to the adjacent area caused by erosion events. The shoreline of the adjacent properties is stabilized and increased erosion in these areas is not anticipated to result from the proposed project.

Policy 17 *Non-structural measures to minimize damage to natural resources and property from flooding and erosion shall be used whenever possible.*

Response: Due to the stabilized nature of the surrounding properties and the existing structure on-site, non-structural methods for shoreline stabilization are not feasible for this area. However, native plantings are proposed landward of the shoreline stabilization structures to prevent erosion landward of the structure.

f) Beach, dune or barrier island? (12)

Policy 12 *Activities or development in the coastal area will be undertaken so as to minimize damage to natural resources and property from flooding and erosion by protecting natural protective features including beaches, dunes, barrier islands and bluffs.*

Response: The proposed project will not cause erosion and will prevent damage to the adjacent area caused by erosion events. The shoreline of the adjacent properties is stabilized and increased erosion in these areas is not anticipated to result from the proposed project.

3. Will the proposed activity require any of the following:

a) Waterfront site? (2, 21, 22)

Policy 2 *Facilitate the siting of water-dependent uses and facilities on or adjacent to coastal waters.*

Response: N/A – the proposed project does not involve siting of facilities.

Policy 21 *Water-dependent and water-enhanced recreation will be encouraged and facilitated, and will be given priority over non-water-related uses along the coast.*

Response: The proposed project will not inhibit water dependent uses within the project area.

Policy 22 *Development, when located adjacent to the shore, will provide for water-related recreation, whenever such use is compatible with reasonably anticipated demand for such activities, and is compatible with the primary purpose of the development.*

Response: N/A – the proposed project does not involve property development; only shoreline stabilization and roadway rehabilitation is proposed.

c) Construction or reconstruction of a flood or erosion control structure? (13,14,16)
d)

Policy 13 *. The construction or reconstruction of erosion protection structures shall be undertaken only if they have reasonable probability of controlling erosion for at least thirty years as demonstrated in design and construction standards and/or assured maintenance or replacement programs.*

Response: The proposed shoreline stabilization structure as expected to control erosion for more than the next 30 years. The proposed structures are consistent within the industry. Ongoing maintenance will be performed as needed by the municipality.

Policy 14 *Activities and development including the construction or reconstruction of erosion protection structures, shall be undertaken so that there will be no measurable increase in erosion or flooding at the site of such activities or development, or at other locations.*

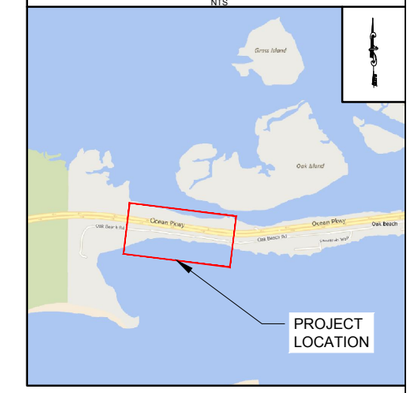
Response: The proposed project will not increase erosion or flooding of the project site or any adjacent property.

Policy 16 *Public funds shall only be used for erosion protective structures where necessary to protect human life, and new development which requires a location within or adjacent to an erosion hazard area to be able to function, or existing development; and only where the public benefits outweigh the long term monetary and other costs including the potential for increasing erosion and adverse effects on natural protective features.*

Response: The proposed project will rehabilitate the existing roadway and prevent damage from future erosion events. The roadway north of the shoreline stabilization structures is the only access road for the existing residential structures to the west of the project site. Should the roadway become damaged and impassible, the residential properties would no longer be accessible.

TOWN OF BABYLON
DEPARTMENT OF PUBLIC WORKS

KEY MAP
NTS



PLANS FOR

OAK BEACH COMMUNITY SHORELINE STABILIZATION AND ROADWAY IMPROVEMENTS

SUFFOLK COUNTY, NEW YORK

THIS PROJECT IS FUNDED IN PART THROUGH NEW YORK STATE GOVENOR'S OFFICE OF
STORM RECOVERY - DISASTER RECOVERY AND FEDERAL FUNDS COMMUNITY DEVELOPMENT BLOCK GRANTS

90% DESIGN PLANS

CONTRACT NO. XXXX

OCTOBER 2018

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, PROFESSIONAL ENGINEERING AND LAND SURVEYING, SECTION 7209 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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DWN. BY:	TK
CHK'D BY:	RB
DATE:	OCT. 2018
JOB No.:	18110
CADD:	COV
SCALE:	NONE

No.	DATE	REVISION	BY:
-	-	-	-/-

DRAWING NUMBER:
C-1

SHEET: 1 OF 11

GENERAL NOTES

MISCELLANEOUS

1. ALL GENERAL WORK IN THIS CONTRACT SHALL CONFORM TO THE LATEST NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED. ALL BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THESE SPECIFICATIONS, THE NYSDOT STANDARDS AND ALL REFERENCED SPECIFICATIONS, STANDARDS, AND REQUIREMENTS.

2. IT SHOULD BE NOTED THAT SPECIFICATIONS FOR CERTAIN CONTRACT ITEMS CONTAINED HEREIN REFER DIRECTLY OR INDIRECTLY TO THE SPECIFICATIONS FOR OTHER ITEMS FOR STANDARDS OF WORKMANSHIP, METHODS, EQUIPMENT, QUALITY OF MATERIALS, ETC. EVEN THOUGH THE ITEMS REFERRED TO ARE NOT INCLUDED IN THE PROPOSAL. NO ADDITIONAL PAYMENT WILL BE MADE BY REASON OF SUCH REFERENCE. THE COST OF WORK, MATERIALS, EQUIPMENT, OR PROCEDURES REFERRED TO SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS ITEMS IN THE PROPOSAL.

3. ALL OPERATIONS SHALL BE CONDUCTED SO AS NOT TO INTERFERE WITH, INTERRUPT OR ENDANGER NEW YORK STATE PARK LAND.

4. AS PER THE NOAA FISHERIES / HABITAT CONSERVATION DIVISION FEDERAL INTERAGENCY COMMENT FORM DATED 9/25/2018, NO IN-WATER WORK SHALL BE DONE BETWEEN JANUARY 1ST AND MAY 31ST OF EACH YEAR TO MINIMIZE ADVERSE EFFECTS TO WINTER FLOUNDER EARLY LIFE STAGES AND THEIR EFH. THIS ONLY APPLIES TO ANY WORK CONDUCTED BELOW THE MEAN LOW WATER LINE.

5. AREAS BEYOND THE WORK LIMITS DISTURBED FOR ANY REASON, BY THE CONTRACTOR AND HIS EMPLOYEES, SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

6. THE CONTRACTOR SHALL TAKE PRECAUTIONS NOT TO LEAVE DEBRIS, MATERIALS, AND TOOLS, ETC., ON THE ROADWAY SURFACE WHEN LEAVING THE WORK AREA. IN ADDITION, THE CONTRACTOR SHALL TAKE PRECAUTIONS THAT NO DEBRIS, ETC., INTERFERES WITH ADJACENT OPEN TRAFFIC LANES AND PEDESTRIAN WALKS.

7. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS (CURB, SIDEWALK, ASPHALT, GUTTER, SOD, PAVEMENT, ETC.) IN-KIND.

8. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT DUE TO THE NATURE OF RECONSTRUCTION THIS PROJECT, THE EXACT EXTENT OF RECONSTRUCTION THE WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER AVAILABLE INFORMATION. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER.

PAVING

9. ANY OF THE EXISTING ASPHALT OVERLAY WHICH DOES NOT FIRMLY ADHERE TO EXISTING PAVEMENT, AS DETERMINED BY THE ENGINEER, SHALL BE REMOVED UNDER VARIOUS CONTRACT ITEMS. ALL LOOSE ASPHALT THUS REMOVED, AND ASPHALT REMOVED PRIOR TO THE START OF WORK, SHALL BE REPLACED WITH NEW ASPHALT CONCRETE UNDER THE TOP COURSE ITEM.

10. TACK COAT – IN ADDITION TO THE DISTRIBUTOR EQUIPMENT, SMALL POWER SPRAY UNITS OF HAND-HELD SPRAY EQUIPMENT, AS APPROVED BY THE ENGINEER, MAY BE USED IN THE AREAS WHERE USE OF THE DISTRIBUTOR IS IMPRACTICAL, SUCH AS; NARROW IRREGULAR AREAS, INTERSECTIONS, AND OTHER LOCATIONS WHERE TRAFFIC MUST BE ALLOWED TO CROSS THE PAVEMENT AND IN AREAS WHERE THE DISTANCE BETWEEN INTERSECTIONS IS SHORT AS DETERMINED BY THE ENGINEER.

11. TACK COAT SHALL BE APPLIED WHENEVER RESURFACING:(1) ANY PORTLAND CEMENT CONCRETE PAVEMENT;2) ANY MILLED PAVEMENT; AND(3) ANY ASPHALT CONCRETE PAVEMENT EXCEPT WHEN THE EXISTING SURFACE IS EXCESSIVELY FLUSHED, AS DETERMINED BY THE ENGINEER.

    IN ADDITION, TACK COAT SHALL BE APPLIED TO CONTACT SURFACES BETWEEN ALL HOT MIX ASPHALT PAVEMENT LIFTS REGARDLESS OF TIME PERIOD BETWEEN LIFTS OR CONSTRUCTION VEHICLE USE (EXCLUDING THE SURFACE OF PERMEABLE BASE MATERIAL).

12. WHERE NOTCHES ARE CUT INTO THE EXISTING PAVEMENT IN PREPARATION FOR THE OVERLAY AT THE LIMITS OF RESURFACING, PRIOR TO REOPENING THE ROADWAY TO TRAFFIC, THE CONTRACTOR SHALL EITHER PLACE THE PROPOSED ASPHALT OVERLAY IMMEDIATELY OR PLACE A TEMPORARY WEDGE (1 ON 60) OF ASPHALT TO ELIMINATE THE BUMP CREATED BY THE NOTCH. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE PAVING ITEMS.

13. CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 403 OF THE STANDARD SPECIFICATIONS. WHEN HOT MIX ASPHALT IS TO BE PLACED BY BITUMINOUS PAVER THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN A CONSISTENT GRADATION ACROSS THE MAT. THIS MAY INCLUDE, BUT NOT BE LIMITED TO, REMIXING OF MATERIAL TRANSFERRED FROM THE HAULING UNIT. THE CONTRACTOR SHALL USE EQUIPMENT SUCH AS MOBILE CONVEYER, MATERIAL TRANSFER VEHICLE DEVICE, SHUTTLE BUGGY, MATERIAL TRANSFER PAVER, OR PAVER WITH REMIXER CONVEYOR SYSTEM. THE ENGINEER WILL CONSIDER OTHER TYPES OF EQUIPMENT OR MODIFICATIONS TO PAVERS, WHICH WILL MINIMIZE SEGREGATION. RAVELING THAT MAY OCCUR TO THE ASPHALT MAT THAT IS SUBJECT TO TRAFFIC DURING ANY PHASE OF CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL NECESSARY REPAIRS TO RAVELED AREAS SHALL BE REPAIRED AT NO COST TO THE STATE. THIS WORK MAY INCLUDE, BUT IS NOT LIMITED TO, SAW CUTTING, REMOVAL OF RAVELED/UNSTABLE HOT MIX ASPHALT AND PLACEMENT OF NEW HOT MIX ASPHALT MATERIAL IN REPAIR AREA.

    THE PAVER SHALL HAVE A CONSTANT FLOW/HEAD OF MATERIAL. THE WINGS OF THE PAVER RECEIVING HOPPER SHALL NOT BE RAISED (DUMPED) AT ANY TIME DURING THE PAVING OPERATION. STOPPING OF PAVING MACHINE SHALL BE KEPT TO A MINIMUM. BROADCASTING OF LOOSE MATERIAL OVER THE PAVED MAT WILL NOT BE PERMITTED.

14. WHEN REMOVING EXISTING ASPHALT WITHIN AN AREA TO BE RESURFACED, THE CONTRACTOR SHALL REMOVE THE MATERIAL TO A NEAT LINE HAVING A MAXIMUM DEVIATION FROM THE STRAIGHT OF 4 INCHES IN 10 FEET AND AOBE TO PERMIT PROPER AND ADEQUATE REPLACEMENT AND COMPACTION OF THE NEW ASPHALT. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK BUT THE COST SHALL BE INCLUDED IN THE PRICE BID FOR UNCLASSIFIED EXCAVATION.

SAW CUTTING

15. NO PAYMENT WILL BE PAID UNDER THE SAWCUT ITEMS, IF THE PAYMENT FOR SAWCUT IS INCLUDED IN OTHER ITEMS.

SURVEY

21. THE DATUM USED ON THIS CONTRACT IS THE MEAN SEA LEVEL ELEVATION 0.000 FT AT SANDY HOOK, NEW JERSEY AS DETERMINED BY THE UNITED STATES COAST AND GEODETIC SURVEY. COORDINATES IN THE N.Y.S. SYSTEM AS ESTABLISHED FOR LONG ISLAND BY THE US COAST AND GEODETIC SURVEY. BEARINGS ARE REFERRED TO THE TRUE NORTH AT 74°-00' WEST LONGITUDE. THE HORIZONTAL COORDINATES ARE EXPRESSED IN US SURVEY FEET IN THE N.Y. STATE PLANE COORDINATE SYSTEM, LONG ISLAND ZONE (ZONE 3104). VERTICAL DATUM IS NAVD AS ESTABLISHED BY THE NGS ON BENCHMARK U38 (PID# KU0149)

23. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NOT TO DISTURB ANY MONUMENTS AND BENCH MARKS WITHIN PROJECT LIMITS PRIOR TO THE START OF ANY EXCAVATION. ANY EXPENSE INQURRED IN REPLACING MONUMENTS OR BENCHMARKS THAT THE CONTRACTOR, OR ANY EMPLOYEE, MAY HAVE FAILED TO PRESERVE SHALL BE PAID BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE TOWN.

24. THE CENTERLINE SHOWN ON THESE PLANS IS APPROXIMATE AND IS SHOWN FOR TABULATING AND FILING PURPOSES ONLY. THE CENTERLINE STATIONING MAY BE ESTABLISHED BY FLAT CHAINING ALONG THE EXISTING SURFACE UTILIZING CONTROLS FURNISHED BY THE ENGINEER. PAYMENT SHALL BE INCLUDED IN THE SURVEY OPERATIONS ITEM 625.01.

LANDSCAPING

25. TREES AND SHRUBS ARE TO BE PRUNED IN ACCORDANCE WITH CLEARING AND GRUBBING AND THE FOLLOWING REQUIREMENTS. ALL COSTS SHALL BE INCLUDED IN THE PRICE BID FOR CLEARING AND GRUBBING.

    (A) THE CONTRACTOR SHALL CAREFULLY CUT OFF ALL BRANCHES OF PLANTS HANGING WITHIN 16 FEET ABOVE ANY PART OF THE ROADWAY OR WITHIN 2 FEET OF THE EDGE OF THE SHOULDER. BRANCHES SHALL BE TRIMMED AT THE TRUNK TO MAINTAIN A CALLOUS RIDGE.

    (B) PRUNING MAY BE REQUIRED BEYOND THE LIMITS INDICATED IN ORDER TO MAINTAIN ADEQUATE SIGHT DISTANCE FOR ALL TRAFFIC SIGNS AND SIGNALS. ADDITIONAL BRANCH PRUNING MAY ALSO BE REQUIRED ON ANY TREE WHERE BRANCHES ARE REMOVED IN ORDER TO MAINTAIN AN ESTHETIC BALANCE. ALL SUCH ADDITIONAL PRUNING SHALL BE AS ORDERED BY THE ENGINEER.

    (C) ALL WORK SHALL BE DONE ACCORDING TO ACCEPTABLE HORTICULTURAL AND PRUNING PRACTICES.

    (D) THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE ANY EXISTING TREES THAT ARE TO REMAIN. ANY DAMAGE THROUGH CARELESSNESS OF THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE, AOBE.

CLEARING AND GRUBBING

26. CLEARING AND GRUBBING SHALL INCLUDE THE REMOVAL OF ALL TREES, AS SHOWN ON THE PLANS OR AS ORDERED BY THE ENGINEER. THE CONTRACTOR SHALL NOTIFY THE E.I.C TWO (2) WEEKS PRIOR TO REMOVAL OF ANY TREES AND SHALL NOT START HIS OPERATION UNTIL APPROVED BY THE ENGINEER.

27. THE CONTRACTOR SHALL PERFORM THE APPROPRIATE SUBGRADE DENSITY TESTING UPON COMPLETION OF FINE GRADING OF SUBGRADE MATERIAL FOR THE CONSTRUCTION OF THE ROADWAY AS PER THE LATEST NYSDOT SPECIFICATIONS AND STANDARDS, AOBE.

SOIL AND SOIL EROSION CONTROL

28. THE COST FOR ANY NECESSARY DEWATERING SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS CONTRACT ITEMS.

SIGNS

29. ALL EXISTING SIGNS THAT ARE DAMAGED OR REMOVED BY CONSTRUCTION PROCESSES UNDER THIS WORK SHALL BE RESET OR REPLACED AS REQUIRED OR AS ORDERED BY THE ENGINEER RESPONSIBLE FOR CONSTRUCTION INSPECTION.

30. CURRENT REQUIREMENTS FOR LATERAL CLEARANCE AND HEIGHT REQUIREMENTS FOR SIGNS ARE GIVEN ON THE STANDARD SHEET TITLED POSITIONING OF TRAFFIC SIGNS.

UTILITIES

31. CONTRACTOR SHALL CONTACT UTILITIES FOR MARK-OUT OF ALL UTILITIES PRIOR TO CONSTRUCTION.

32. EXISTING UNDERGROUND AND OVERHEAD UTILITIES AS SHOWN HEREIN HAVE BEEN DETERMINED BY STANDARD SURVEYING METHODS AND AVAILABLE RECORDS. NEITHER THE EXACT LOCATION NOR THE INFORMATION OF THESE EXISTING UTILITIES IS GUARANTEED TO BE COMPLETE OR CORRECT.

SHEET INDEX:

PAGE NUMBER(S)	DRAWING NUMBER(S)	SHEET TITLE
1	C-1	COVER SHEET
2	LGND-1	LEGEND PLAN
3	TYP-1	TYPICAL SECTION
4	DET-1	MISCELLANEOUS DETAILS
5	WTZC-1	WORK ZONE TRAFFIC CONTROL
6	SCP-1	SURVEY CONTROL PLAN
7	OVR-1	OVERALL PLAN
8-10	CP 1-3	CONSTRUCTION PLAN
11	LP 1	LANDSCAPE PLAN

FEATURE	SYMBOL: EXISTING	SYMBOL: PROPOSED (SEE PLANS)
BOUNDARIES		
HIGHWAY BOUNDARY LINE		
VILLAGE, CITY OR TOWN LIMITS		
BUILDING		
BUILDING LINE		
ROADWAY AND SIDEWALK		
TRAVERSABLE CURB		
CURB LINE/FLUSH CURB		
SIDEWALK	SW	
DECORATIVE CONCRETE ISLAND		
TRUCK APRON		
DRIVEWAY APRON		
SIDEWALK RAMP (REINFORCED CONCRETE)		
TRAFFIC FLOW		
ASPHALT ROAD		
VEGETATION		
TREES, DECIDUOUS		
TREES, CONIFEROUS		
SHRUBS, BUSHES		
GRASS RESTORATION		
TRAFFIC SIGNAL SYSTEMS		
PULLBOX		
SPAN WIRE	SPAN	
TRAFFIC SIGNAL POLE		
TRAFFIC SIGNAL POLE WITH CONTROLLER CABINET		
CONTROLLER OR DETECTOR CABINET		
TRAFFIC SIGNAL FACE		
PEDESTRIAN SIGNAL FACE		
PEDESTRIAN PUSH BUTTON		
ALUMINUM VEHICLE DETECTOR HOUSING		
AERIAL TRAFFIC SIGNAL COMMUNICATION CABLE	TS TS	
UNDERGROUND TRAFFIC SIGNAL CONDUIT		
LOOP DETECTOR	LOOP	
SURVEY DATA		
SPOT ELEVATION	X 34.13	X (34.13)
BASELINE		
HORIZONTAL CONTROL LINE		
EROSION CONTROL		
SILT FENCE		
DRAINAGE STRUCTURE PROTECTION		
STREET LIGHTING SYSTEM		
PULLBOX		
LIGHT FIXTURE		

FEATURE	SYMBOL: EXISTING	SYMBOL: PROPOSED (SEE PLANS)
UTILITIES BELOW GROUND		
STORM DRAIN INLET		
GAS VALVE		
WATER VALVE		
ELECTRIC LINE	E	
FIRE COMMUNICATIONS LINE	FD	
GAS LINE	8"G	
SANITARY SEWER LINE	S	
STORM DRAINAGE LINE	D	
TELEPHONE LINE	T	
WATER LINE	8"W	
INFORM LINE	INFORM	
CABLEVISION LINE	CA	
ELECTRIC MANHOLE	E	
GAS MANHOLE	G	
LIPA MANHOLE	L	
SANITARY SEWER MANHOLE	S	
STORM DRAINAGE MANHOLE	D	
TELEPHONE MANHOLE	T	
FIRE HYDRANT		
STREET LIGHT		
FIELD INLET		
UTILITIES ABOVE GROUND		
MISCELLANEOUS OVERHEAD WIRES	OHW OHW	
GUY WIRE		
UTILITY POLE		
UTILITY POLE WITH RISER	BE	
MISCELLANEOUS FEATURES		
STONE REVETMENT		
PLANTED/STABILIZED BERM		
FULL DEPTH ASPHALT RECONSTRUCTION		
SIGNS		
GUIDE RAIL		
MEDIAN BARRIER		
RETAINING WALL		
FENCE		
NORTH ARROW (TRUE)		
TOPOGRAPHY		
CONTOURS	36.0 36.5 37.0	36.0 36.5 37.0
LIMIT OF RESTORATION, GRADING OR CLEARING AND GRUBBING		

TOPOGRAPHIC ABBREVIATIONS

E	ELECTRIC
G	GAS
GP	GUY POLE
GSB	GAS SERVICE BOX (HOUSE CONNECTION)
GV	GAS VALVE (MAIN LINE)
HPG	HIGH PRESSURE GAS
HYD	HYDRANT
LP	LIGHT POLE
LPG	LOW PRESSURE GAS
SA	SANITARY SEWER
ST	STORM DRAINAGE DEWRE
T	TELEPHONE
TEL P	TELEPHONE POLE
CA	CABLE TELEVISION
W	WATER
WM	WATER METER
WSB	WATER SERVICE BOX (HOUSE CONNECTION)
WV	WATER VALVE (MAIN LINE)
ABUT	ABUTMENT
AOBE	AS ORDERED BY THE ENGINEER
ASPH	ASPHALT
BLDG	BUILDING
BM	BENCH MARK
BR	BRIDGE
CONC	CONCRETE
CONST	CONSTRUCTION
CR	COUNTY ROAD
DWY	DRIVEWAY
EP	EDGE OF PAVEMENT
ES	EDGE OF SHOULDER
FP	FENCE POST
FND	FOUNDATION
FL	FENCE LINE
GAR	GARAGE
GR	GRAVEL
HO	HOUSE
HWY	HGHWAY
MB	MAIL BOX
MON	MONUMENT
PAV'T	PAVEMENT
RR	RAILROAD
RTE	ROUTE
ROW	RIGHT OF WAY
RW	RETAINING WALL
ST.	STREET
SW	SIDEWALK
TL	TREELINE
BC	BOTTOM OF CURB
CB	CATCH BASIN
CMP	CORRUGATED METAL PIPE
CULV.	CULVERT
DI	DROP INLET
EL	ELEVATION

DRAINAGE ABBREVIATIONS

BB	BOTTOM OF BANK (STREAM)
BC	BOTTOM OF CURB
BO	BOTTOM OF OPENING
CAP	CORRUGATED ALUMINUM PIPE
CB	CATCH BASIN
CI	CURB INLET
CIP	CAST IRON PIPE
℄ STRM	CENTERLINE OF STREAM
CMP	CORRUGATED METAL PIPE
CP	CONCRETE PIPE
CSP	CORRUGATED STEEL PIPE
CULV	CULVERT
DI	DROP INLET
D'XING	DITCH CROSSING
EHW	EXTREME HIGH WATER
ELEV OR EL	ELEVATION
ELW	EXTREME LOW WATER
ES	END SECTION
FI	FIELD INELT
HW	HEADWALL
INV	INVERT
LB	LEATCHING BASIN
MH	MANHOLE
MHW	MEAN HIGH WATER
OCMP	OBLATE CORRUGATED METAL PIPE
OHW	ORDINARY HIGH WATER
OLW	ORDINARY LOW WATER
RCP	REINFORCED CONCRETE PIPE
TB	TOP OF BANK
TC	TOP OF CURB
TG	TOP OF GRATE
TO	TOP OF OPENING
VCP	VITRIFIED CLAY PIPE
VTP	VITRIFIED TILE PIPE

ALIGNMENT ABBREVIATIONS

AH	AHEAD
AZ	AZIMUTH
BK	BACK
▯	BASELINE
BRG	BEARING
℄	CENTERLINE
CS	CURVE TO SPIRAL
D	DEGREE OF CURVE
DIA	DIAMETER
E MAX	MAXIMUM SUPERELEVATION
EQ	EQUALITY
EXT	EXTERNAL
HCL	HORIZONTAL CONTROL LINE
HSD	HEADLIGHT SIGHT DISTANCE
L	LENGTH OF CIRCULAR CURVE
LS	LENGTH OF SPIRAL
LVC	LENGTH OF VERTICAL CURVE
MC	CENTER CORRECTION OF VERTICAL CURVE
▯	MAIN LINE
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
POI	POINT ON LINE
PSD	PASSING SIGHT DISTANCE
PT	POINT OF TANGENT
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENT
R	RADIUS
SC	SPIRAL TO CURVE
SSD	STOPPONG SIGHT DISTANCE
ST	SPIRAL TO TANGENT
STA	STATION
T	TANGENT LENGTH
TGL	THEORETICAL GRADE LINE
TS	TANGENT TO SPIRAL
VC	VERTICAL CURVE

THE FOLLOWING IS A LIST OF NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SHEETS AND REGIONAL GUIDE SHEETS THAT APPLY TO THE WORK WITHIN THE NEW YORK STATE RIGHT OF WAY AND WITHIN THE LIMITS SHOWN ON THE PLANS THAT SHALL BE USED IN CONCURRENCE WITH THE DETAILS PROVIDED WITHIN THE CONTRACT PLANS:

609-03	CONCRETE CURB, CURB AND GUTTER, AND HOT MIX ASPHALT CURB
611-01	LANDSCAPE PLANTING DETAILS
619-04	PORTABLE TEMPORARY WOODEN SIGN SUPPORT
619-11	WORK ZONE TRAFFIC CONTROL LEGENDS & NOTES
645-01	SIGN BLANK DETAILS (SHEET 1 & 2)
645-03	POSITIONING OF TRAFFIC SIGNS (SHEETS 1 & 2)
645-08	STANDARD REGULATORY AND AND WARNING SIGNS
645-09	SIGN PANEL DETAILS FOR GUIDE, INFORMATION, & OTHER SIGNS

90% DESIGN PLANS

No.	DATE	REVISION	BY:
-	-	-	-/-

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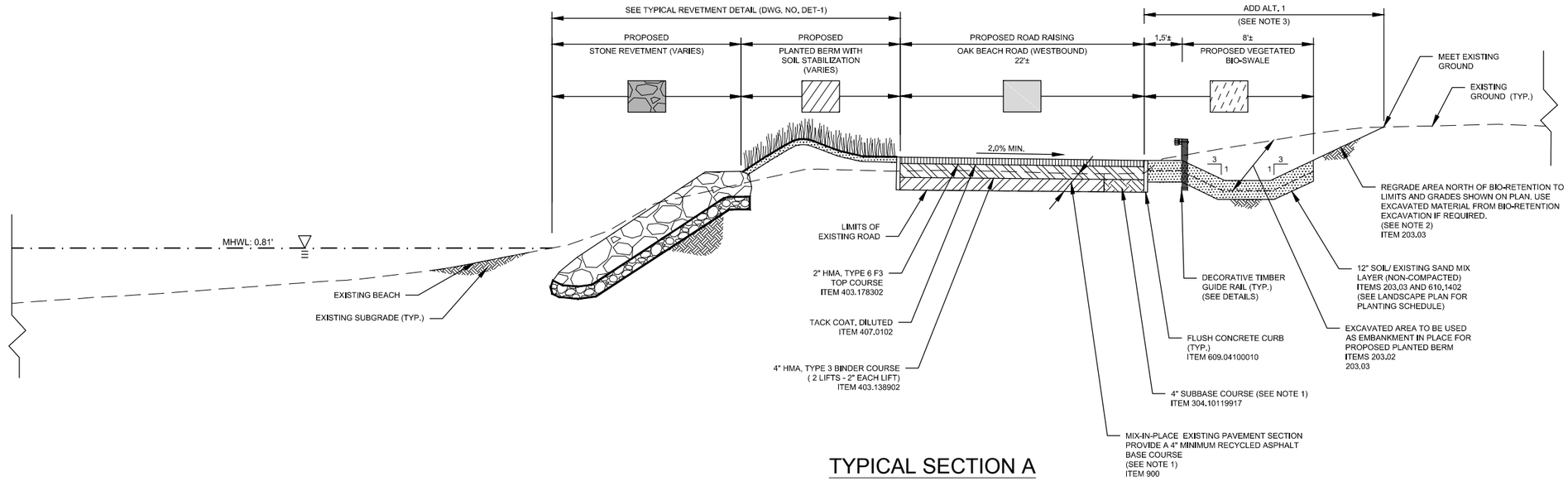
CHK'D BY:	RS
DATE:	OCT. 2018
JOB No.:	18110
CADD:	COV.DWG
SCALE:	AS SHOWN

DRAWING TITLE:
LEGEND PLAN - 1
OAK BEACH COMMUNITY SHORELINE
STABILIZATION AND ROADWAY IMPROVEMENTS
BABYLON, NEW YORK

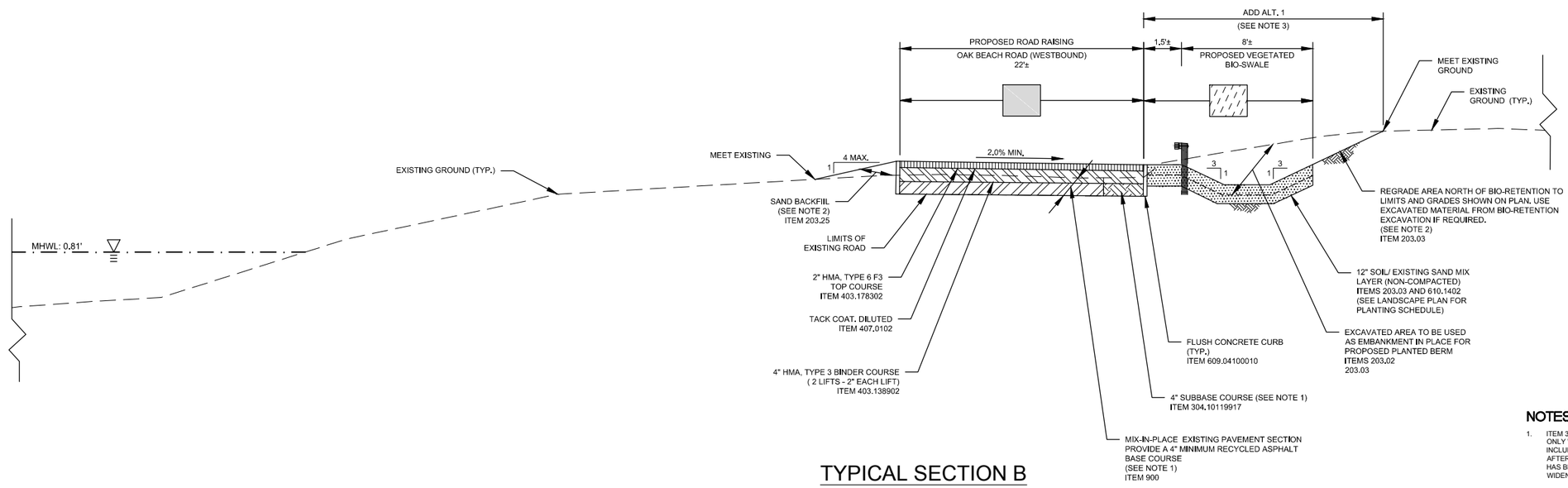
DRAWING NUMBER:
LGND-1

SHEET: 2 OF 11



TYPICAL SECTION A

STA. 11+85± TO STA. 16+20±
STA. 20+50± TO STA. 25+00±
NOT TO SCALE



TYPICAL SECTION B

STA. 10+50± TO STA. 11+85±
STA. 16+20± TO STA. 20+50±
STA. 25+00± TO STA. 25+40±
NOT TO SCALE

NOTES:

1. ITEM 304.10119917 (SUBBASE COURSE, TYPE 1011-2) SHALL BE USED ONLY WHEN APPROVED BY THE ENGINEER FOR GRADATION PURPOSES, INCLUDING FILL AREAS BELOW THE PAVEMENT BASE COURSE ONLY AFTER ALL EXCESS EXISTING MATERIAL FROM ITEM 900 OPERATIONS HAS BEEN USED. CONTRACTOR SHALL USE THIS ITEM WHERE ROADWAY WIDENING IS REQUIRED.
2. ITEM 203.25 (SAND BACKFILL) SHALL BE USED AFTER ALL MATERIAL FROM ITEM 203.03 (EMBANKMENT IN PLACE) HAS BEEN USED.
3. SHOULD THE TOWN DECIDE TO OMIT ADD ALT. 1 FROM CONTRACT, CONTRACTOR SHALL GRADE BACK TO EXISTING GRADE AT A MAXIMUM 1:4 SLOPE FROM NORTH SIDE OF ROADWAY, UTILIZING CLEAN SAND BACKFILL, ITEM 203.25.

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No.	DATE	REVISION	BY:
-	-	-	-/-

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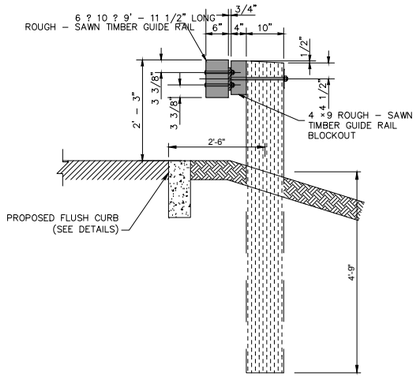
CLIENT:
TOWN OF BABYLON
200 EAST SUNRISE HIGHWAY
LINDENHURST
NEW YORK 11757

DWN. BY:	TK
CHK'D BY:	RS
DATE:	OCT. 2018
JOB No.:	18110
CADD:	COV.DWG
SCALE:	AS SHOWN

DRAWING TITLE:
TYPICAL SECTION -1
OAK BEACH COMMUNITY SHORELINE
STABILIZATION AND ROADWAY IMPROVEMENTS
BABYLON, NEW YORK

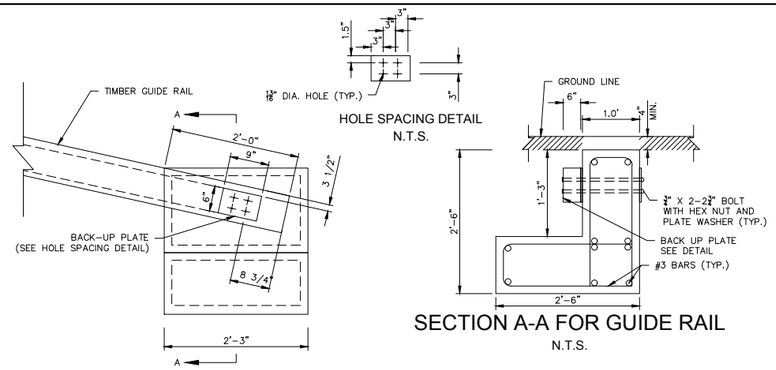
DRAWING NUMBER:
TYP - 1

SHEET: 3 OF 11



TIMBER GUIDE RAIL - SECTION A

N.T.S.



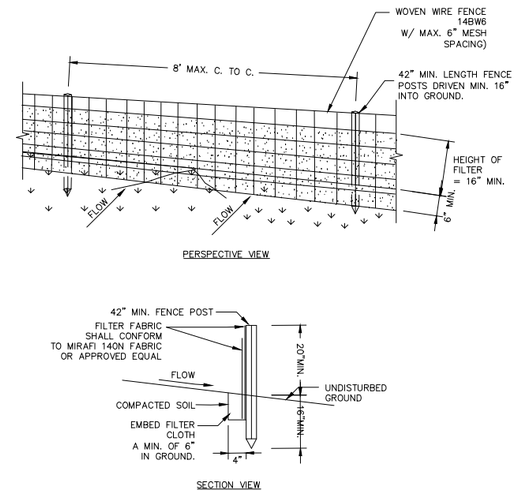
CONCRETE ANCHOR DETAIL (SEE PLANS FOR LOCATIONS) ADD ALT. 2

N.T.S.

ITEM 606.47760010

SECTION A-A FOR GUIDE RAIL

N.T.S.



CONSTRUCTION SPECIFICATIONS

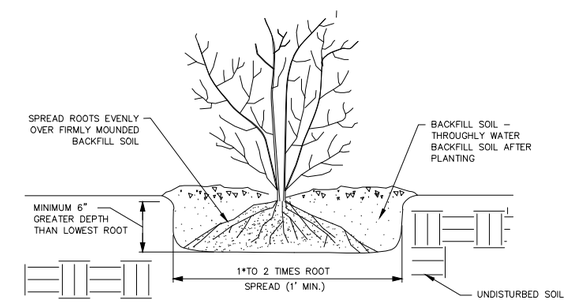
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 14BW6 GAUGE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER MIRAFI 140N OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT BARRIER TEMPORARY

N.T.S.

ITEM 209.13

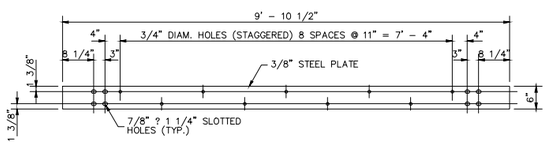
PAVEMENT MARKING LAYOUT	TYPE	ITEM NUMBER
	SOLID DOUBLE LINE (YELLOW)	687.0201



BARE ROOT SHRUB PLANTING DETAIL

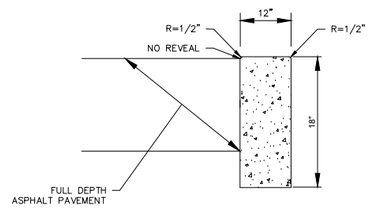
N.T.S.

ITEM 611.0443



TIMBER GUIDE RAIL - STEEL BACKING PLATE

N.T.S.



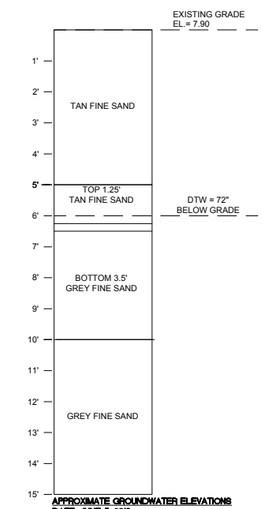
FLUSH CONCRETE CURB

N.T.S.

ITEM 609.04100010

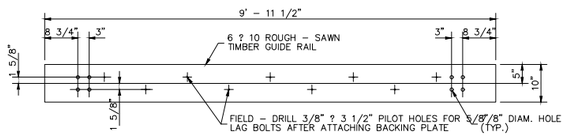
CURB NOTE:

CONCRETE CURB SHALL BE CONSTRUCTED SO THAT THE FINAL TOP OF CURB GRADE MEETS THE PROPOSED GRADE OF THE TRUCK APRON AND/OR PAVEMENT TO ACHIEVE A FLUSH TRANSITION.



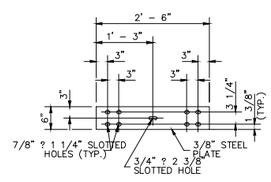
SOIL BORING LOCATION #1

NORTH SIDE
OAK BEACH RD
APPROX. 930 FEET EAST
OF HOUSE #221



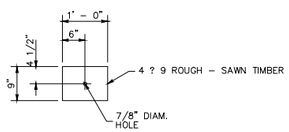
TIMBER GUIDE RAIL - TIMBER RAIL

N.T.S.



TIMBER GUIDE RAIL STEEL SPLICE PLATE

N.T.S.

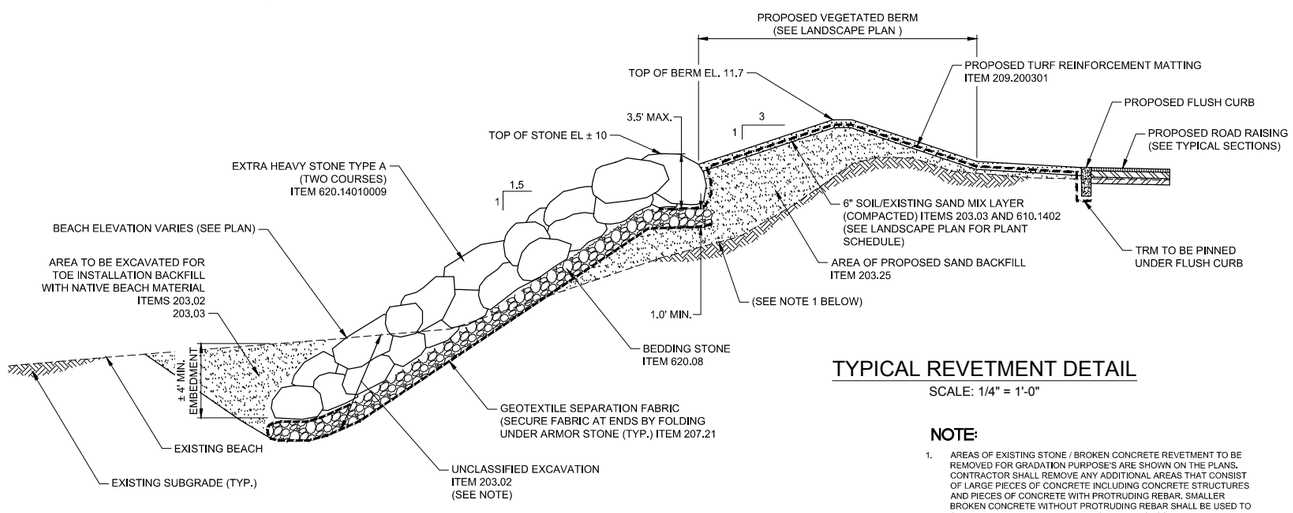


TIMBER GUIDE RAIL RAIL BLOCKOUT

N.T.S.

TIMBER GUIDE RAIL DETAIL FROM STA. 11+07± TO STA. 25+38± ADD ALT 2

ITEM 606.47750010



TYPICAL REVETMENT DETAIL

SCALE: 1/4" = 1'-0"

NOTE:

1. AREAS OF EXISTING STONE / BROKEN CONCRETE REVETMENT TO BE REMOVED FOR GRADATION PURPOSE'S ARE SHOWN ON THE PLANS. CONTRACTOR SHALL REMOVE ANY ADDITIONAL AREAS THAT CONSIST OF LARGE PIECES OF CONCRETE INCLUDING CONCRETE STRUCTURES AND PIECES OF CONCRETE WITH PROTRUDING REBAR. SMALLER BROKEN CONCRETE WITHOUT PROTRUDING REBAR SHALL BE USED TO SUPPLEMENT THE UNDER LAYER FOR THE PROPOSED REVETMENT UNDER DIRECTION FROM ENGINEER.

90% DESIGN PLANS

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-	-	-	-/-

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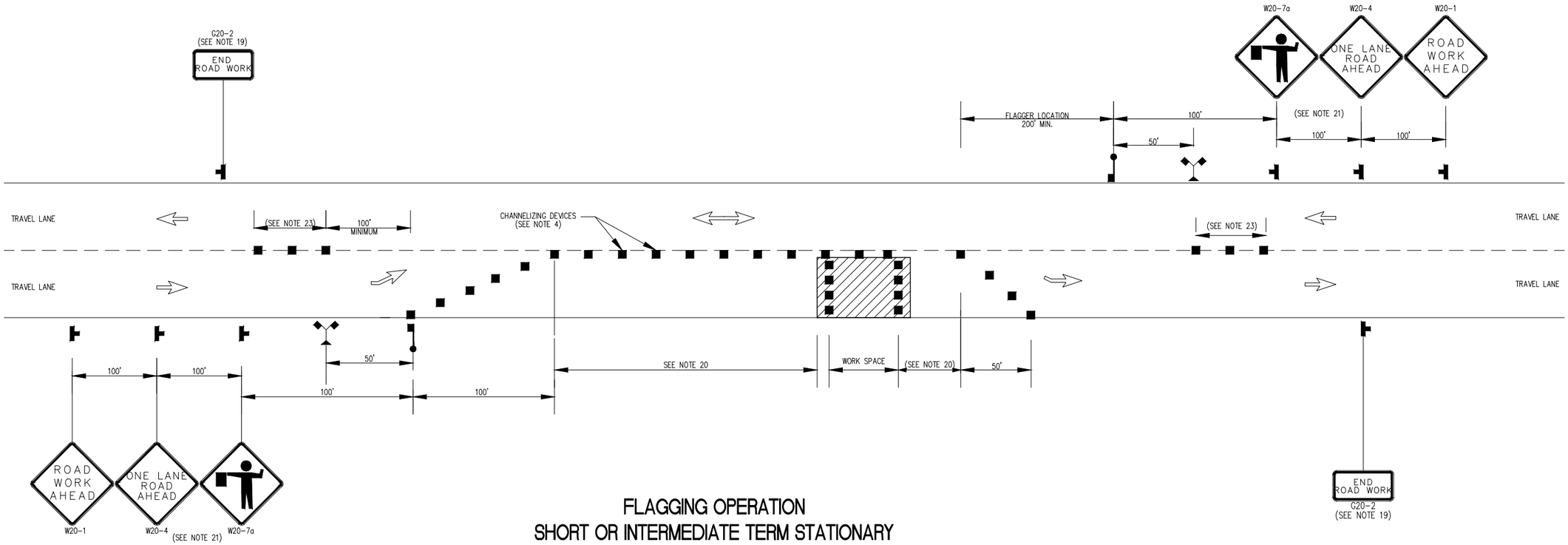
JOB No.:	18110
CADD:	COV.DWG
SCALE:	AS SHOWN

DRAWING TITLE:
MISCELLANEOUS DETAILS-1
OAK BEACH COMMUNITY SHORELINE STABILIZATION AND ROADWAY IMPROVEMENTS
BABYLON, NEW YORK

DRAWING NUMBER: DET - 1

SHEET: 4 OF 11



FLAGGING OPERATION
SHORT OR INTERMEDIATE TERM STATIONARY
LANE CLOSURE ON 2-LANE 2-WAY ROADWAY

(NOT TO SCALE)

ITEM 619.01

WORK ZONE TRAFFIC CONTROL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF TRAFFIC. MAINTENANCE OF TRAFFIC SCHEMES SHALL BE IN ACCORDANCE WITH THE PLANS, THE NATIONAL MUTCD, NYS SUPPLEMENT AND AS APPROVED OR DIRECTED BY THE ENGINEER. TRAFFIC SCHEMES SHOWN ON THE PLANS OR IN THE MUTCD ARE TO BE CONSIDERED MINIMUM REQUIREMENTS. THE ENGINEER MAY ORDER ADDITIONAL SIGNS, FLAGGERS, CONES, REFLECTORIZATION ETC., IF HE DEEMS IT NECESSARY.

2. THE CONTRACTOR MAY SUBMIT REVISIONS TO THIS PLAN FOR APPROVAL BY THE TOWN AND/OR E.I.C.

3. UNDIVIDED HIGHWAYS: THE CONTRACTOR SHALL NOT WORK ON BOTH SIDES OF THE ROADWAY IN THE SAME AREA AT THE SAME TIME.

4. ALL LANES MUST BE OPEN TO TRAFFIC BEFORE 10AM AND AFTER 3PM. NO LANE CLOSING ARE PERMITTED ON WEEKENDS OR HOLIDAYS. NIGHTTIME LANE CLOSINGS WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL FROM THE STATE PERMIT INSPECTOR.

   NO LANE CLOSINGS WILL BE PERMITTED ON NYS ROADWAYS ON HOLIDAYS:

   -FROM NOON ON THE FRIDAY BEFORE MEMORIAL DAY THROUGH LABOR DAY.
   -INDEPENDENCE DAY;
   -LABOR DAY;
   -VETERANS DAY;
   -FROM NOON THE DAY BEFORE THANKSGIVING DAY THROUGH THE SUNDAY FOLLOWING THANKSGIVING DAY;
   -THE DAY PRECEDING CHRISTMAS DAY;
   -CHRISTMAS DAY;
   -THE DAY BEFORE NEW YEAR'S DAY;
   -NEW YEAR'S DAY

   ALL LANES MUST BE OPEN TO TRAFFIC BEFORE 10 AM AND AFTER 3 PM.
   NO LANE CLOSURES ARE PERMITTED ON WEEKENDS OR HOLIDAYS.

   NIGHTTIME LANE CLOSINGS WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL FROM THE STATE PERMIT INSPECTOR.

5. WHENEVER WORK ZONE TRAFFIC CONTROL SCHEMES PROVIDING FOR ONE-LANE ROAD OPERATION ARE IN EFFECT, THE CONTRACTOR SHALL POSITION FLAGGERS AT THE LIMITS OF THE ONE-LANE ROAD OPERATION, AT ALL CROSS STREETS WITHIN THE ONE-LANE ROAD OPERATION, AT MAJOR DRIVEWAYS AND SUCH OTHER LOCATIONS AS REQUIRED BY THE ENGINEER TO CONTROL TRAFFIC. FLAGGERS SHALL BE EQUIPPED WITH TWO-WAY RADIOS, WHERE IN THE OPINION OF THE ENGINEER THE USAGE OF SUCH RADIOS IS NECESSARY TO CONTROL TRAFFIC. SUCH RADIOS SHALL HAVE SUFFICIENT TRANSMITTING POWER TO REACH ALL POINTS WITHIN THE LENGTH OF THE ONE-LANE ROAD OPERATION. GUIDELINES FOR THE USE OF SUCH RADIOS SHALL BE INCLUDED IN THE BASIC WORK ZONE TRAFFIC CONTROL ITEM.

   WHEN CONES ARE USED IN CONTROLLING THE MOVEMENT OF TRAFFIC THROUGH WORK AREAS, THE CONTRACTOR SHALL TAKE STEPS AS NECESSARY TO PREVENT THE CONES FROM BEING BLOWN OVER OR DISPLACED BY PASSING VEHICLES. THE CONTRACTOR SHALL ACCOMPLISH THIS BY DOUBLING CONES, BY THE USE OF SAND BAG RINGS, OR BY OTHER SUCH MEANS AS MAY BE APPROVED BY THE ENGINEER WHICH SHALL PRESENT NO HAZARD TO MOTORISTS OR TO WORKERS IF THE CONES ARE STRUCK.

6. THE CONTRACTOR MUST NOTIFY THE ENGINEER, THE LOCAL COUNTY DEPARTMENT OF PUBLIC WORKS, LOCAL PUBLIC SCHOOLS, THE LOCAL COUNTY POLICE DEPARTMENT, AND THE TOWN FIRE DEPARTMENTS OF ALL DETOURS, PROPOSED STREET CLOSINGS, OR ANY WORK THAT MIGHT AFFECT THE MOBILITY OR ACCESS OF THE FIRE OR POLICE DEPARTMENT 5 WORKING DAYS IN ADVANCE OF THEIR IMPLEMENTATION. IN ADDITION, THE CONTRACTOR SHALL ENSURE THAT HYDRANTS AND ALARM BOXES ARE KEPT CLEAR AND AVAILABLE.

7. VARIOUS MAINTENANCE AND CONSTRUCTION SIGNS SPECIFIED IN PART 238 OF THE MUTCD ARE AVAILABLE IN THE STANDARD DIAMOND SHAPE AND AN ALTERNATE RECTANGULAR SHAPE. WHENEVER SUCH SIGNS ARE INCLUDED IN THIS CONTRACT, THE DIAMOND SHAPE SIGN SHALL BE USED, DESPITE OTHER INDICATIONS IN SECTION 238.1(C).

8. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 6F.02 OF THE MUTCD WHICH REQUIRES THAT WITH THE EXCEPTION OF THE RAILROAD ADVANCE WARNING SIGN, WARNING SIGNS USED IN CONJUNCTION WITH WORK ZONE ACTIVITIES SHOULD HAVE FLUORESCENT ORANGE BACKGROUNDS CLASS D WITH BLACK LETTERING OR SYMBOLS.

9. THE CONTRACTOR SHALL PLACE W8-1 "BUMP" SIGNS, W8-2 "DIP" SIGNS AND/OR W8-8 "ROUGH ROAD" SIGNS WHERE DIRECTED BY THE ENGINEER.

10. CONTRACTOR'S ATTENTION IS DIRECTED TO SUBSECTIONS 619-3.02 AND 645-3.17 OF THE STANDARD SPECIFICATIONS. EXISTING TRAFFIC SIGNS AND CONSTRUCTION SIGNS WITHIN THE WORK AREA WHICH ARE NO LONGER NEEDED, EVEN TEMPORARILY, OR ARE CONFLICTING, INAPPROPRIATE OR CONFUSING, SHALL BE REMOVED (SUBJECT TO THE APPROVAL OF THE ENGINEER) OR SHALL BE COVERED COMPLETELY WITH AN OPAQUE MATERIAL. THE COST OF THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR THE WORK ZONE TRAFFIC CONTROL ITEM.

11. PROVISION FOR SNOW AND ICE REMOVAL OPERATIONS: IN ORDER TO ALLOW FOR SNOW AND ICE CONTROL BY STATE FORCES ON THE STATE HIGHWAYS AND BY LOCAL MUNICIPALITIES ON LOCAL ROADS, THE CONTRACTOR SHALL SCHEDULE HIS WORK IN ACCORDANCE WITH THE FOLLOWING:

    A. INTERFERENCE WITH SNOW PLOWING OPERATIONS BY DRUMS, BARRICADES AND OTHER TRAFFIC CONTROL EQUIPMENT SHALL BE KEPT TO A MINIMUM. ANY DEVICES DISTURBED OR DAMAGED BY SNOW AND ICE CONTROL OPERATIONS SHALL BE REPLACED AND/OR RESET AS NECESSARY AND AS SOON AS POSSIBLE BY THE CONTRACTOR.

    B. ALL PAVEMENT CUTS SHALL BE RESTORED TO THE ADJACENT PAVEMENT GRADE TO ELIMINATE RECESSED AREAS WHERE SNOW CANNOT BE PLOWED OR WHERE THE PLOWS MAY SNAG.

12. THE CONTRACTOR SHALL MINIMIZE THE DURATION OF DROP-OFFS ADJACENT TO THE EXISTING TRAVEL LANES. THE CONTRACTOR IS NOT TO EXCAVATE THE SHOULDER AREA UNTIL THEY ARE PREPARED TO COMPLETE, IN A TIMELY MANNER, ALL SUBSEQUENT OPERATIONS TO COMPLETE THE PROPOSED WORK. IN THE EVENT OF CIRCUMSTANCES BEYOND THE CONTRACTOR'S CONTROL, SUCH DROP-OFFS SHALL BE ELIMINATED BY OR AT THE EXPENSE OF THE CONTRACTOR AT THE END OF THE FORTY-EIGHTH HOUR AFTER THE LAST TIME THE WORK FORCE ACTIVELY PURSUED CONSTRUCTION IN THE DROP-OFF AREA. NO DROP-OFF GREATER THAN 6 INCHES IS TO REMAIN OVER A WEEKEND OR HOLIDAY. A DROP-OFF IS CONSIDERED ELIMINATED IF TAPERED AWAY BY A 1 ON 4 SLOPE OR FLATTER.

13. PERMANENT PAVEMENT MARKINGS SHALL BE DONE IMMEDIATELY AFTER TOP COURSE PAVING OPERATIONS ARE COMPLETE.

14. PAVEMENT MARKING LOCATIONS, SIZES AND LENGTHS ON NYS ROADWAYS SHALL BE AS SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER RESPONSIBLE FOR CONSTRUCTION INSPECTION.

15. THE TRAVEL LANE SHALL BE SWEPT CLEAN BY THE CONTRACTOR BEFORE THE LANE IS REOPENED TO TRAFFIC.

16. THE CONTRACTOR SHALL REFER TO SECTION 6C.08 OF THE MUTCD FOR APPROPRIATE TAPER LENGTHS.

17. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.

18. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.

19. THE END ROAD WORK SIGN (G20-2) SHALL BE PLACED A MAXIMUM OF 500' PAST THE END OF THE WORK SPACE.

20. WHERE DIRECTED BY THE ENGINEER, A BUFFER SPACE SHALL BE PROVIDED IN ORDER TO LOCATE THE ONE-LANE, TWO-WAY TRAFFIC TAPER PRIOR TO ANY HORIZONTAL OR VERTICAL CURVE, IN ORDER TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGERS AND/OR A QUEUE OF STOPPED VEHICLES.

21. FLAGGER SIGN (W20-7a) AND ONE LANE ROAD AHEAD SIGN (W20-4) SHALL BE REMOVED, COVERED OR TURNED AWAY FROM ROAD USERS WHEN FLAGGING OPERATIONS ARE NOT OCCURRING.

22. ALL FLAGGERS SHALL USE 24" (MIN.) OCTAGON SHAPED STOP/SLOW PADDLES HAVING 6' STAFF.

23. CENTERLINE CHANNELIZING DEVICES ARE OPTIONAL AND MAY BE ELIMINATED WHERE SPACE CONSTRAINTS EXIST.

90% DESIGN PLANS

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DWN. BY:	TK
CHK'D BY:	RS
DATE:	OCT. 2018
JOB No.:	18110
CADD:	COV.DWG
SCALE:	AS SHOWN

DRAWING TITLE:
WORK ZONE TRAFFIC CONTROL-1
OAK BEACH COMMUNITY SHORELINE
STABILIZATION AND ROADWAY IMPROVEMENTS
BABYLON, NEW YORK

DRAWING NUMBER:
WZTC-1

SHEET: 5 OF 11

CURVE No. 1	
P.C.	STA. 11+37.53
	N 173119.58
	E 1176425.60
P.T.	STA. 13+84.83
	N 256064.1980
	E 1289254.2863
D	01°-42'-56.16"
R	3340.000
Δ	04-14'-34.0794"
L	247.300
T	123.710

CURVE No. 2	
P.C.	STA. 13+85.42
	N 173094.15
	E 1176672.12
P.T.	STA. 15+77.19
	N 256064.1980
	E 1289254.2863
D	00°-07'-24.60"
R	46384.420
Δ	00-14'-12.84"
L	191.770
T	95.880

CURVE No. 3	
P.C.	STA. 15+87.28
	N 173119.58
	E 1176425.60
P.T.	STA. 22+77.94
	N 256064.1980
	E 1289254.2863
D	00°-01'-26.3994"
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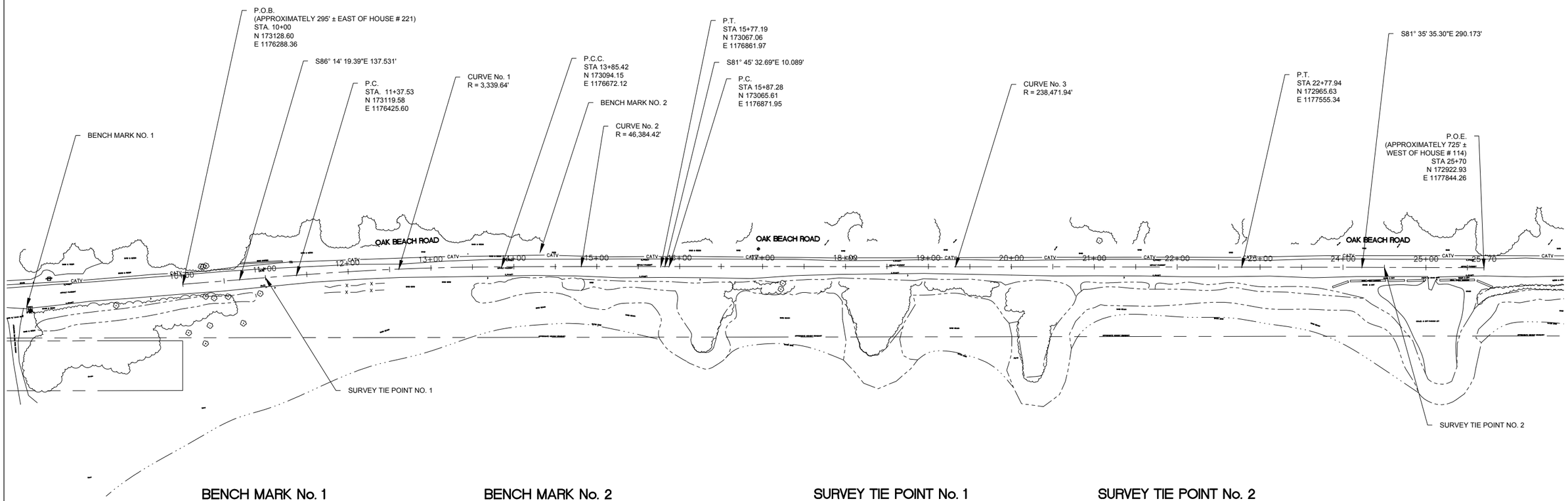
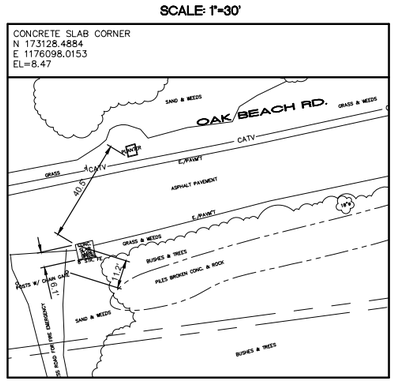
L	690.660
T	345.330



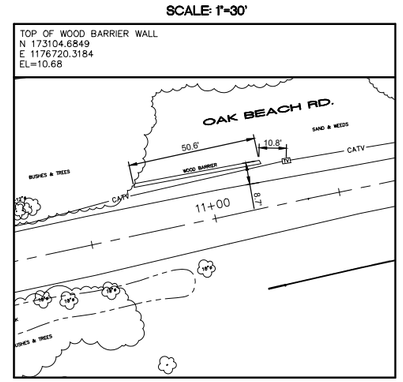
BENCH MARK No. 1

SCALE: 1"=30'



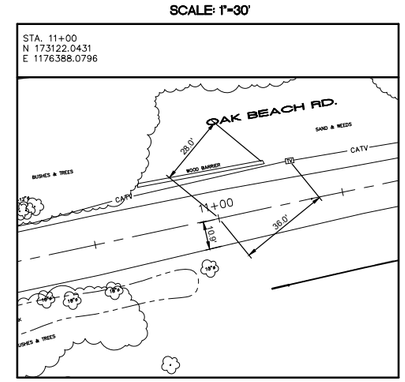
BENCH MARK No. 2

SCALE: 1"=30'



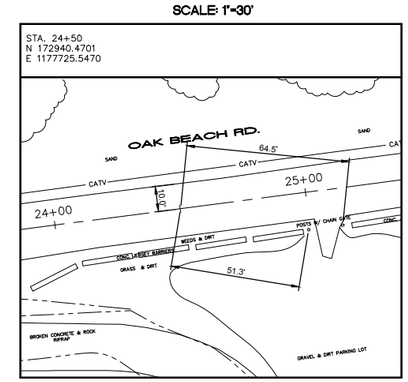
SURVEY TIE POINT No. 1

SCALE: 1"=30'



SURVEY TIE POINT No. 2

SCALE: 1"=30'



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SURVEY CONTROL PLAN - 1
OAK BEACH ROAD, OAK BEACH COMMUNITY
BABYLON, NEW YORK

DRAWING NUMBER:
SCP-1

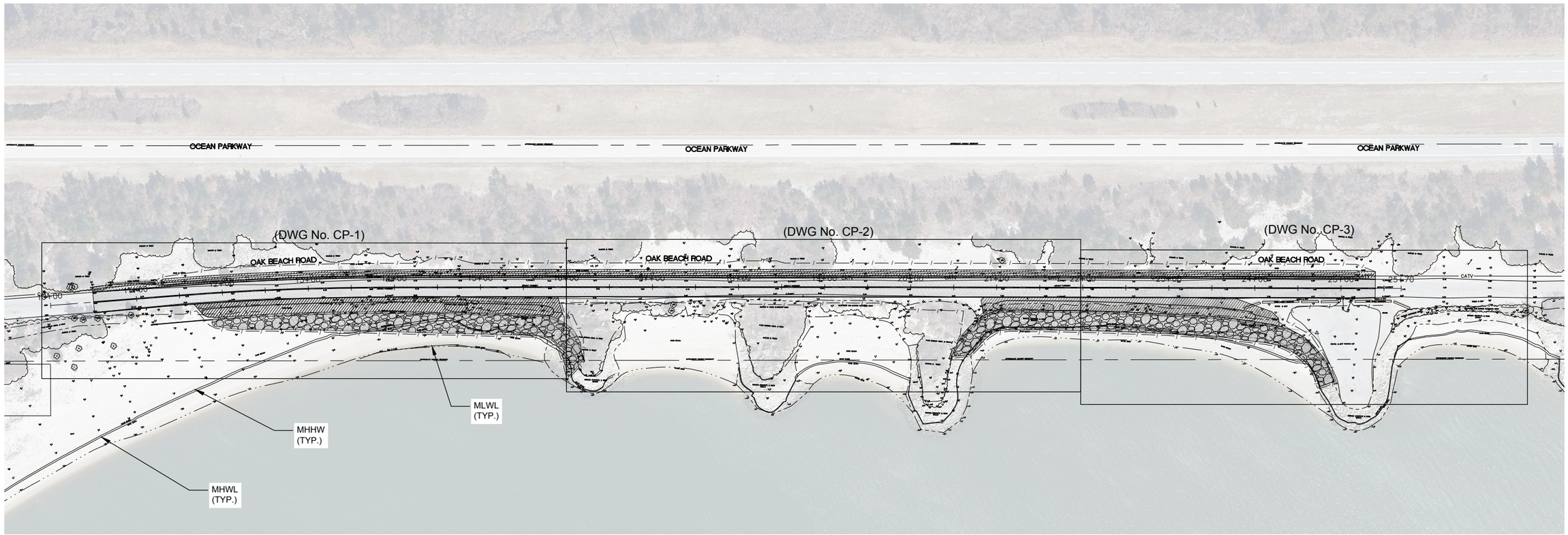
SHEET: 6 OF 11

GRAPHIC SCALE

60 0 30 60 120

(IN FEET)
1 INCH =60 FEET

NORTH



LEGEND:

- STONE REVETMENT
- PLANTED/ STABILIZED BERM
- BIO SWALE AREA (ADD ALT. 1)
- FULL DEPTH ASPHALT RECONSTRUCTION
- FLUSH CONCRETE CURB
- DECORATIVE TIMBER RAIL (ADD ALT. 2)

TIDAL DATA

MHHW (MEAN SPRING TIME HIGH WATER LEVEL) (EL 0.99)

MHWL (MEAN HIGH WATER LEVEL) (EL 0.81)

MLWL (MEAN LOW WATER LEVEL) (EL -1.32)

90% DESIGN PLANS

No.	DATE	REVISION	BY:
-	-	-	-

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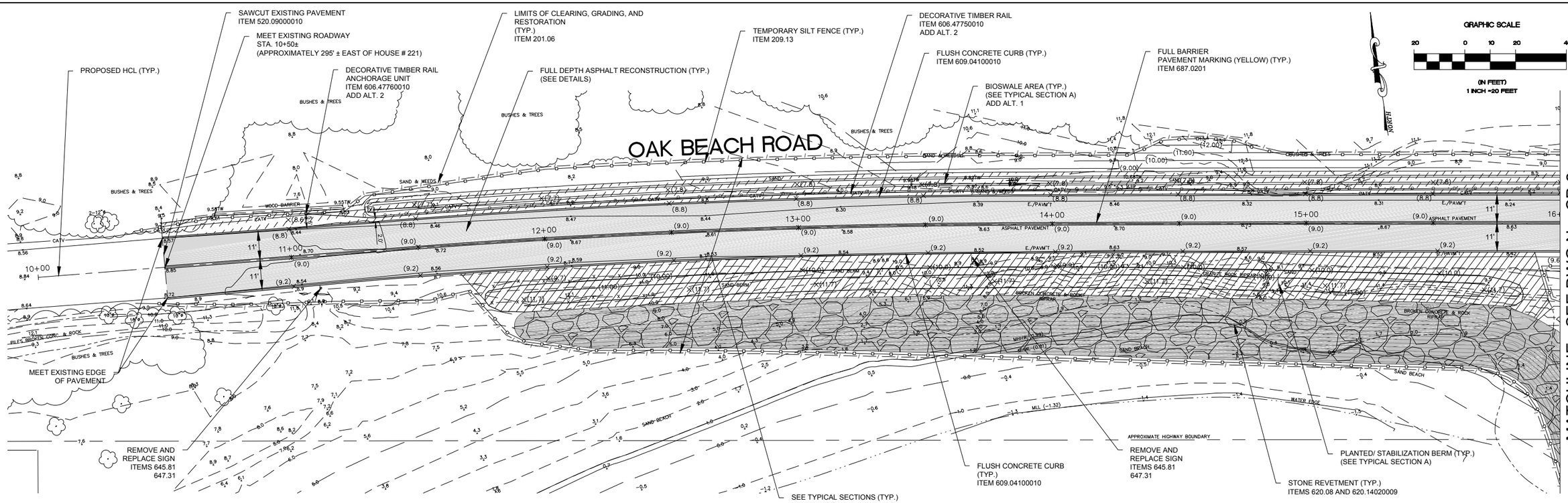
CLIENT:
TOWN OF BABYLON
200 EAST SUNRISE HIGHWAY
LINDENHURST, NEW YORK 11757

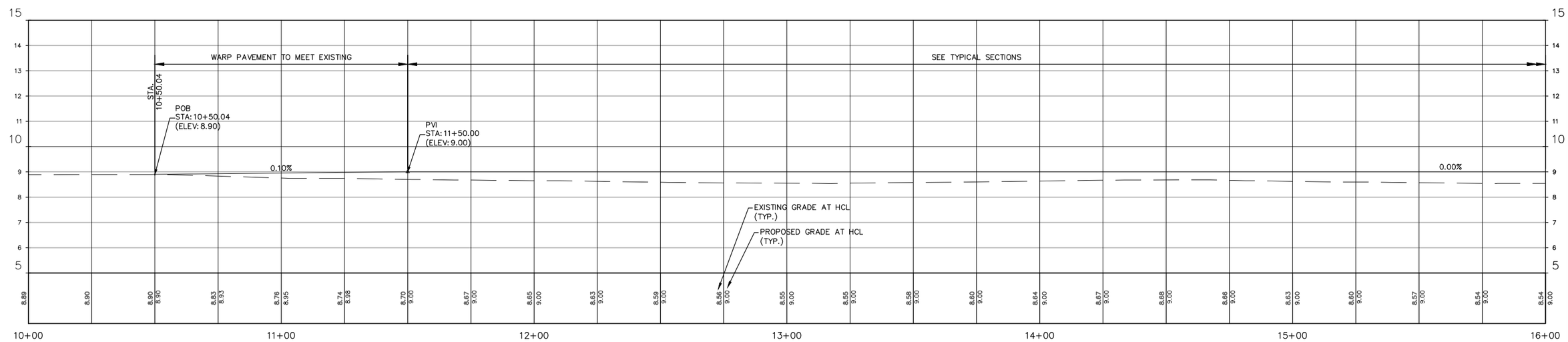
DWN. BY:	TK
CHK'D BY:	RS
DATE:	OCT. 2018
JOB No.:	18110
CADD:	18110_CP.DWG
SCALE:	AS SHOWN

DRAWING TITLE:
OVERALL PLAN - 1
OAK BEACH ROAD, OAK BEACH COMMUNITY
BABYLON, NEW YORK

DRAWING NUMBER:
OVR-1

SHEET: 7 OF 11





OAK BEACH ROAD PROFILE

STA.10+00 TO 16+00
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

90% DESIGN PLANS

No.	DATE	REVISION	BY:
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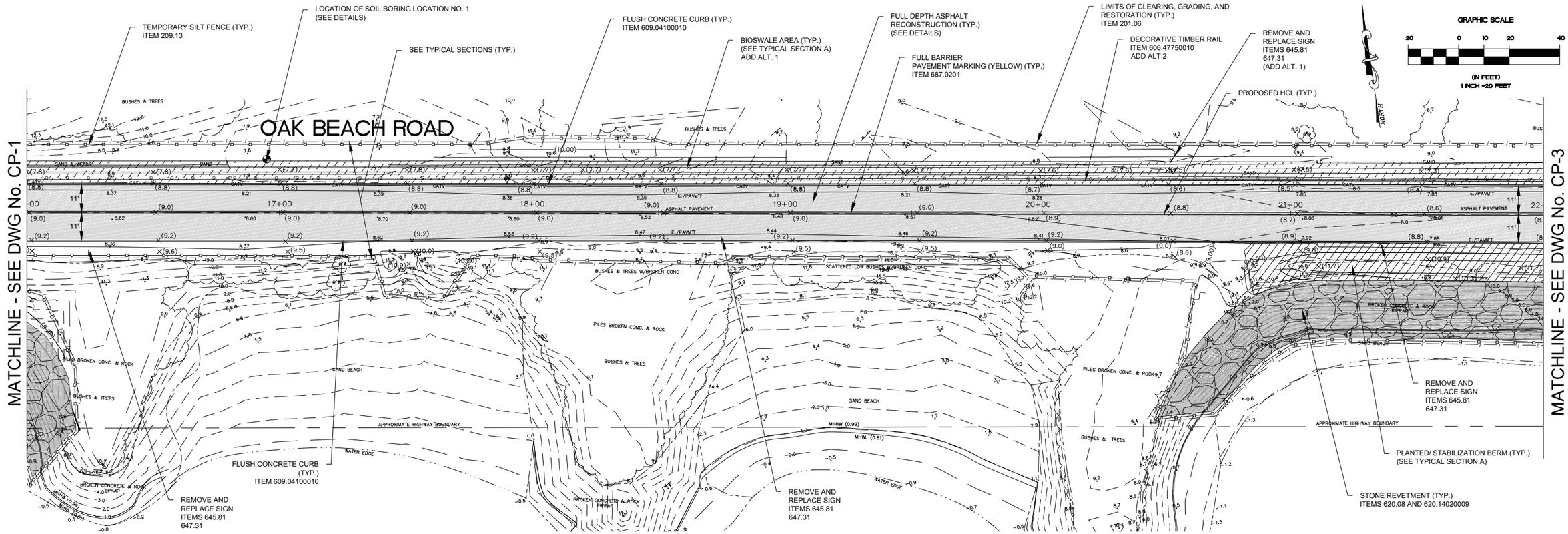
LINDENHURST, NEW YORK 11757

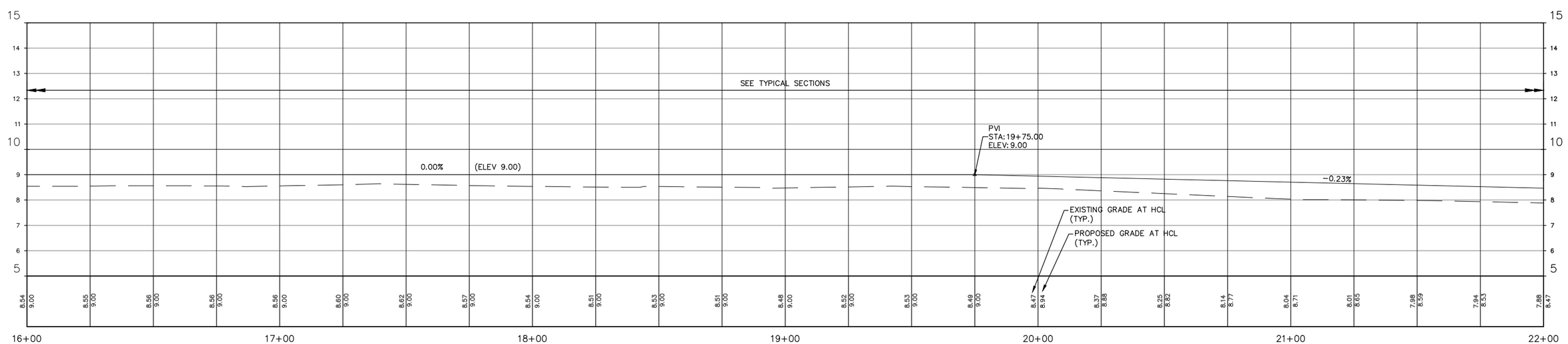
DWN. BY:	TK
CHK'D BY:	RS
DATE:	OCT. 2018
JOB No.:	18110
CADD:	18110_CP.DWG
SCALE:	AS SHOWN

DRAWING TITLE:
CONSTRUCTION PLAN - 1
OAK BEACH ROAD, OAK BEACH COMMUNITY
BABYLON, NEW YORK

DRAWING NUMBER:
CP-1

SHEET: 8 OF 11





OAK BEACH ROAD PROFILE

STA.16+00 TO 22+00
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

90% DESIGN PLANS

No.	DATE	REVISION	BY:

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CLIENT:
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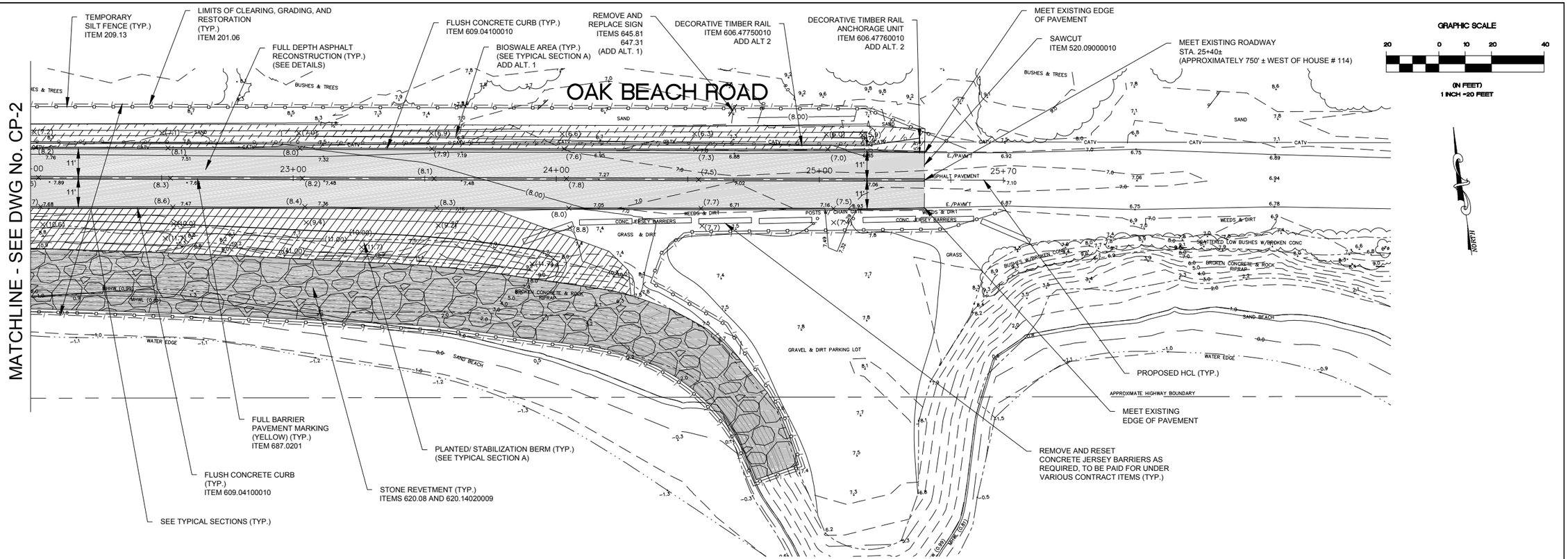
LINDENHURST, NEW YORK 11757

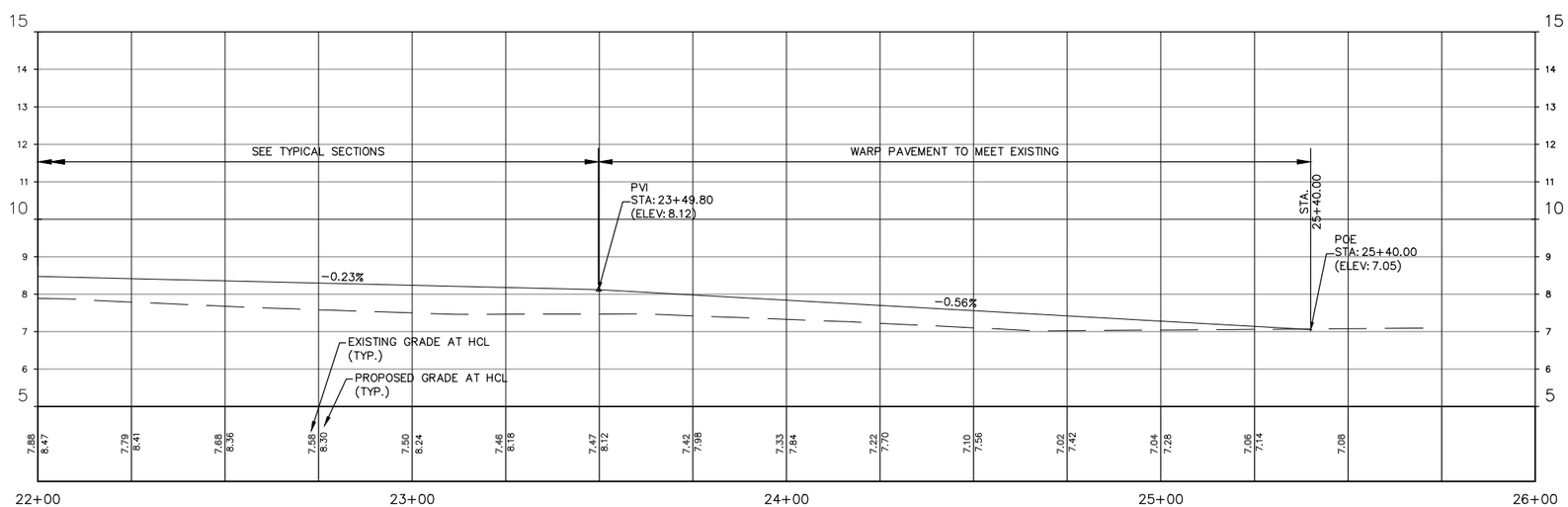
DWN. BY:	TK
CHK'D BY:	RS
DATE:	OCT. 2018
JOB No.:	18110
CADD:	18110_CP.DWG
SCALE:	AS SHOWN

DRAWING TITLE:
CONSTRUCTION PLAN - 2
OAK BEACH ROAD, OAK BEACH COMMUNITY
BABYLON, NEW YORK

DRAWING NUMBER:
CP-2

SHEET: 9 OF 11





OAK BEACH ROAD PROFILE

STA. 22+00 TO 25+70
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

90% DESIGN PLANS

No.	DATE	REVISION	BY:
.	.	.	.

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CLIENT:
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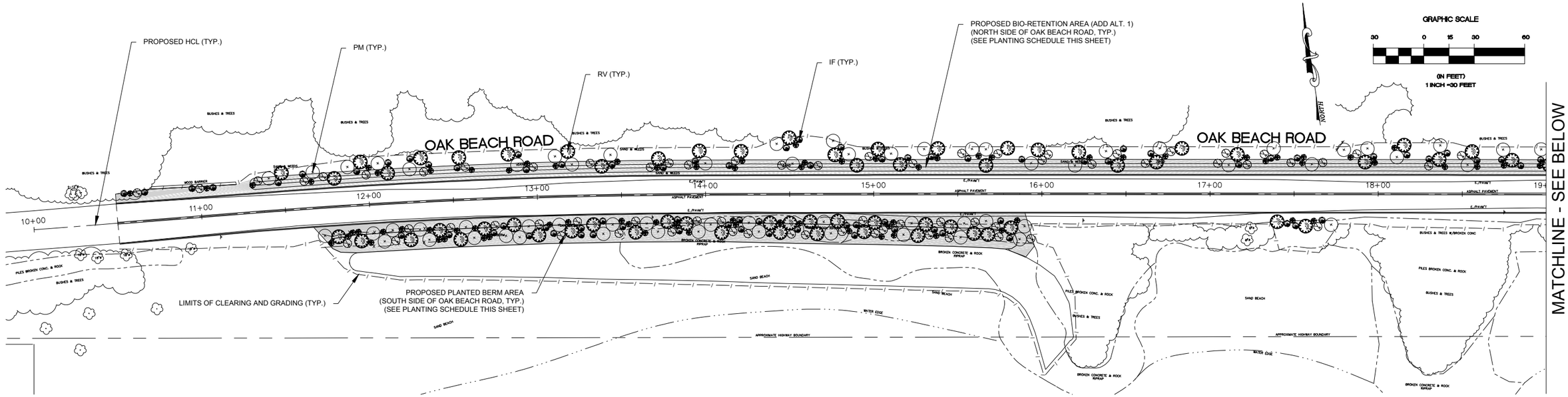
200 EAST SUNRISE HIGHWAY
LINDENHURST, NEW YORK 11757

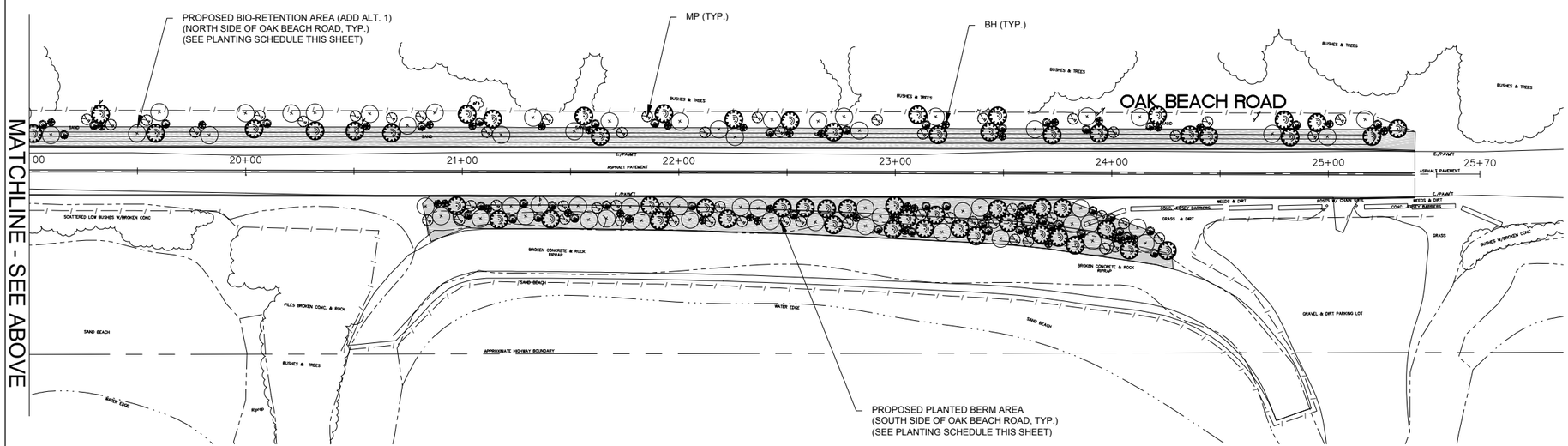
DWN. BY:	TK
CHK'D BY:	RS
DATE:	OCT. 2018
JOB No.:	18110
CADD:	18110_CP.DWG
SCALE:	AS SHOWN

DRAWING TITLE:
CONSTRUCTION PLAN - 3
OAK BEACH ROAD, OAK BEACH COMMUNITY
BABYLON, NEW YORK

DRAWING NUMBER:
CP-3

SHEET: 10 OF 11





NOTES:

1. THE CONTRACTOR SHALL INSPECT SITE PRIOR TO BEGINNING OF PLANTING OPERATIONS AND NOTIFY THE ENGINEER OF ANY CONDITIONS THAT ARE NOT SUITABLE TO PERFORMING PLANTING OPERATIONS. CONTRACTOR SHALL NOTIFY THE ENGINEER IN CHARGE OF ANY CONDITIONS THAT WOULD PREVENT HEALTHY GROWTH OF PLANT MATERIAL.
2. NO HEAVY EQUIPMENT, MACHINERY OR STOCKPILING OF MATERIAL IS PERMITTED WITHIN THE DRIP LINE OF ALL EXISTING TREES THROUGHOUT THE COURSE OF THE PROJECT.
3. THE CONTRACTOR SHALL TAKE EXTREME CARE TO PROTECT THE ROOT SYSTEMS OF EXISTING TREES. HAND/PNEUMATIC EXCAVATE WITHIN THE DRIP LINES OF EXISTING TREES.
4. THE CONTRACTOR SHALL FURNISH ALL PLANT MATERIALS IN SIZES AS SPECIFIED IN THE PLANTING TABLE. THERE WILL BE NO SUBSTITUTIONS OF PLANT MATERIAL WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER IN CHARGE.
5. IN THE EVENT OF VARIATIONS BETWEEN WRITTEN QUANTITIES SHOWN ON THE PLANS AND THE PLANTING TABLE, THE PLANTING TABLE SHALL CONTROL. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES PRIOR TO THE START OF WORK. ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO BIDDING.
6. ALL PLANT MATERIALS MUST BE GROWN AND DISTRIBUTED BY A CERTIFIED NURSERY PROFESSIONAL. THE CONTRACTOR SHALL SUBMIT A COMPLETE ITEMIZED LIST OF ALL PLANTS INCLUDING THE SOURCE OF THE SUPPLY BEFORE THE PLANT MATERIAL IS ORDERED/SHIPPED TO THE PROJECT SITE. ALL PLANT MATERIALS SHALL BE INSPECTED AND TAGGED BY THE ENGINEER PRIOR TO DIGGING.
7. THE CONTRACTOR SHALL FURNISH THE FOLLOWING WITH EACH PLANTING MATERIAL DELIVERY: INVOICE INDICATING SIZES AND VARIETY OF THE PLANT MATERIAL; CERTIFICATE OF INSPECTION BY THE STATE AND FEDERAL AGENCIES; AND LABELS FOR EACH PLANT OR BUNDLE OF PLANTS INDICATING THE NAME AND SIZE.
8. PLANT GROUPINGS AND LOCATIONS ARE DIAGRAMMATIC. PRIOR TO PLANTING, THE CONTRACTOR SHALL STAKE THE LOCATION OF ALL PLANTS IN THE FIELD FOR APPROVAL BY THE ENGINEER.
9. ALL PLANT MATERIALS SHALL BE INSPECTED BY THE ENGINEER ON SITE PRIOR TO INSTALLATION, FOLLOWING INSTALLATION, ON SITE DURING AND PRIOR TO THE END OF THE GUARANTEE PERIOD. THE ENGINEER MAY REJECT ANY AND ALL MATERIALS AT ANY TIME FROM DELIVERY THROUGH THE END OF THE GUARANTEE PERIOD.
10. ALL PLANTS IN THE SAME PLANTING BED SHALL BE PLANTED AT THE SAME TIME. ANY PLANTS REMAINING UNPLANTED ON THE SITE FOR MORE THAN 24 HOURS SHALL BE PROTECTED AND MAINTAINED INCLUDING BUT NOT LIMITED TO WATERING AND SHADE. ANY DAMAGED PLANTS SHALL BE REPLACED AS DIRECTED, AT THE CONTRACTOR'S EXPENSE.
11. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR THE STABILITY AND CONDITION OF ALL PLANT MATERIAL AND SHALL BE LEGALLY LIABLE FOR ANY DAMAGE CAUSED BY THE INSTABILITY OF ANY PLANT MATERIALS DUE TO THE CONSTRUCTION PROCESS.
12. THE CONTRACTOR IS RESPONSIBLE FOR THE FULL AND COMPLETE RESTORATION OF ALL AREAS WITHIN THE CONTRACT LIMITS AS WELL AS THOSE AREAS JUST OUTSIDE THE LIMITS OF CONSTRUCTION WHICH MAY HAVE BEEN DISTURBED DUE TO THE CONSTRUCTION PROCESSES.

PLANTING SCHEDULE (BASE BID)

SYMBOL	QTY.	ABBV.	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	ITEM #
	60	MP	MYRICA PENSYLVANICA	BAYBERRY	#3 CONTAINER	3' O.C.	611.0443
	60	BH	BACCHARIS HELIMIFOLIA	GROUNDSEL BUSH	#3 CONTAINER	3' O.C.	611.0443
	60	IF	IVA FRUTESCENS	MARSH ELDERBERRY	#3 CONTAINER	3' O.C.	611.0443
	60	RV	ROSA VIRGINIANA	VIRGINIA ROSE	#3 CONTAINER	3' O.C.	611.0443
	60	PM	PRUNUS MARITIMA	BEACH PLUM SHRUB	#3 CONTAINER	3' O.C.	611.0443
	1,100	SS	SOLIDAGO SEMPERVIRENS	SEASIDE GOLDENROD	PLUG	1' O.C. (*RANDOM ORDER*)	611.0611
	9,900	AB	AMMOPHILA BREVILIGULATA	BEACH GRASS			

PLANTING SCHEDULE (ADD ALT. 1)

SYMBOL	QTY.	ABBV.	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	ITEM #
	60	MP	MYRICA PENSYLVANICA	BAYBERRY	#3 CONTAINER	3' O.C.	611.0443
	60	BH	BACCHARIS HELIMIFOLIA	GROUNDSEL BUSH	#3 CONTAINER	3' O.C.	611.0443
	60	IF	IVA FRUTESCENS	MARSH ELDERBERRY	#3 CONTAINER	3' O.C.	611.0443
	60	RV	ROSA VIRGINIANA	VIRGINIA ROSE	#3 CONTAINER	3' O.C.	611.0443
	60	PM	PRUNUS MARITIMA	BEACH PLUM SHRUB	#3 CONTAINER	3' O.C.	611.0443
	1,100	SS	SOLIDAGO SEMPERVIRENS	SEASIDE GOLDENROD	PLUG	1' O.C. (*RANDOM ORDER*)	611.0611
	9,900	AB	AMMOPHILA BREVILIGULATA	BEACH GRASS			

90% DESIGN PLANS

No.	DATE	REVISION	BY:

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CLIENT:
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200 EAST SUNRISE HIGHWAY
LINDENHURST, NEW YORK 11757

DWN. BY:	TK
CHK'D BY:	RS
DATE:	OCT. 2018
JOB No.:	18110
CADD:	18110_CP.DWG
SCALE:	AS SHOWN

DRAWING TITLE:
LANDSCAPE PLAN - 1
OAK BEACH ROAD, OAK BEACH COMMUNITY
BABYLON, NEW YORK

DRAWING NUMBER:
LP-1

SHEET: 11 OF 11

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 2
290 BROADWAY
NEW YORK, NY 10007-1866

SEP - 4 2018

Alicia Shultz
Senior Environmental Scientist
New York State Homes & Community Renewal
Governor's Office of Storm Recovery
38-40 State Street
408N Hampton Plaza
Albany, NY 12207

Dear Ms. Shultz:

This is in response to your August 15 request for a Sole Source Aquifer review of the proposed project to elevate Oak Beach Road and restore the Oak Beach shoreline in the Town of Babylon, Suffolk County, New York. The project is being funded under the Housing and Urban Development (HUD) Community Development Block Grant - Disaster Recovery (CDBG-DR) Program. The project site is located above the Long Island Nassau/Suffolk Aquifer System, designated by EPA as a Sole Source Aquifer on June 21, 1978 (citation 43 FR 26611), and our review has therefore been conducted in accordance with Section 1424(e) of the Safe Drinking Water Act (SDWA).

The proposed project would 1) elevate and repave Oak Beach Road over its 1,489-foot length and 22-foot width; 2) construct a berm and a stone revetment on the south side of the road; and 3) construct a bio-swale along the full length of the road on its north side. Excavated material from the bio-swale would be used to build up the berm, with additional clean sand as needed. The berm and bio-swale would be planted with salt-tolerant vegetation. The stone would be grey quarry stone from New York and New Jersey quarries and typically dolomite or granite gneiss. The proposed berm locations are in areas where the roadway is at greater risk of damage because of beach erosion. The existing asphalt on the road would be chewed up by a milling vehicle, ground up and mixed in with other material to provide a base for the reconstructed roadway. The roadway would then be paved with fresh asphalt--prior to construction and planting of the bio-swale--and sloped slightly towards the bio-swale.

Based on the information provided, it is anticipated that this project will not pose a significant threat to public health or ground water resources and complies with Section 1424(e) of the SDWA. Please be advised that meeting the requirements of 1424(e) does not preclude the need to meet National Environmental Policy Act (NEPA) requirements to address direct, indirect, and cumulative impacts. This review does not constitute a review under Section 309 of the Clean Air Act; EPA therefore reserves the right to review additional environmental documents on this project.

If you have any questions concerning this matter or would like additional information, please feel free to contact Michael Poetzsch of my staff at (212) 637-4147.

Sincerely yours,

Grace Musumeci, Chief
Environmental Review Section

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 2
290 BROADWAY
NEW YORK, NY 10007-1866

SEP - 4 2018

Alicia Shultz
Senior Environmental Scientist
New York State Homes & Community Renewal
Governor's Office of Storm Recovery
38-40 State STREET
408N Hampton Plaza
Albany, NY 12207

Dear Ms. Shultz:

This is in response to your August 22 request for a Sole Source Aquifer review of the proposal to increase the resiliency of water and fire service wells in Gilgo and West Gilgo Beaches in the Town of Babylon, Suffolk County, New York. The project is being funded under the Housing and Urban Development (HUD) Community Development Block Grant - Disaster Recovery (CDBG-DR) Program. The project site is located above the Long Island Nassau/Suffolk Aquifer System, designated by EPA as a Sole Source Aquifer on June 21, 1978 (citation 43 FR 26611), and our review has therefore been conducted in accordance with Section 1424(e) of the Safe Drinking Water Act (SDWA).

The proposed project would install four new fire protection wells in West Gilgo Beach, two new fire protection wells in Gilgo Beach, and would harden two drinking water wells in West Gilgo beach. The existing fire protection wells would be replaced because they are either non-functional or have too small a diameter to deliver the required flow. There would be no pumps on or in the fire wells themselves: they consist of a well casing and inlet screen, with an outlet at the top of the casing to which the fire department would connect its hose and would pump water in the event of a fire. The two drinking water wells in the West Gilgo Beach area would be hardened against flooding by raising the wellheads and associated electrical equipment above the base flood elevation. The well seals would be elevated to 3 feet above the flood line. One well is equipped with a submersible pump and the other with a vertical, in-line turbine. The impellers for both types of pumps are submerged, but the whole motor in the former type is also submerged, the motor driving the in-line turbine is mounted at the top of the well casing, in dry surroundings. The vertical turbine pump is already built on a concrete pad and is above the necessary elevation but the submersible pump base will need to be raised. The pumps would be powered alternately, but not simultaneously, by a propane-fueled generator that would also power chlorine and soda-ash feed pumps, heating and lighting. The propane tank would remain above ground and strapped to a concrete platform.

Based on the information provided, it is anticipated that this project will not pose a significant threat to public health or ground water resources and complies with Section 1424(e) of the SDWA. Please be advised that meeting the requirements of 1424(e) does not preclude the need to meet National Environmental Policy Act (NEPA) requirements to address direct, indirect, and cumulative impacts. This review does not constitute a review under Section 309 of the Clean Air Act; EPA therefore reserves the right to review additional environmental documents on this project.

If you have any questions concerning this matter or would like additional information, please feel free to contact Michael Poetzsch of my staff at (212) 637-4147.

Sincerely yours,

Grace Musumeci

Grace Musumeci, Chief
Environmental Review Section

Governor's Office of
Storm Recovery

ANDREW M. CUOMO
Governor

August 14, 2018

Ms. Grace Musumeci
U.S. Environmental Protection Agency
Region II Main Regional Office
290 Broadway, 25th Floor
New York, NY 10007

RE: Sole Source Aquifer Analysis - CDBG-DR Program
Shoreline Stabilization and Road Improvements – Oak Beach Project
Oak Beach Road, Oak Beach, Town of Babylon, Suffolk County

Dear Ms. Musumeci:

The Governor's Office of Storm Recovery (GOSR), operating under the auspices of the New York State Homes and Community Renewal's (NYSHCR) Housing Trust Fund Corporation, was established to aid the statewide recovery of disaster-affected communities in New York State. GOSR is administering a U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant for Disaster Recovery (CDBG-DR), including the New York Rising Community Reconstruction (NYRCR) Program. 24 C.F.R. Part 58 requires GOSR to review projects for conformance with the Safe Drinking Water Act of 1974 (42 U.S.C. 201, 300(f) et seq., and 21 U.S.C. 349) as amended, and Environmental Protection Agency ("EPA") regulations pertaining to Sole Source Aquifers found at 40 C.F.R. Part 149. On behalf of GOSR, please find enclosed the Sole Source Aquifer review information for the Shoreline Stabilization and Road Improvements – Oak Beach Project (Proposed Project).

Project Description

The Town of Babylon is proposing to strengthen the shoreline stabilization structures at the most critical points along Oak Beach's shoreline and raise Oak Beach Road, Oak Beach, Town of Babylon, Suffolk County, New York. The center of the project area is located at 40° 38' 22.35" west latitude and 73° 18' 19.65" north longitude.

Approximately 22 feet by 1,489 feet of the Oak Beach roadway will be restored, the asphalt will be reconstructed and elevated with clearing and grading along the northern side of the road, 20 feet to the north. Within this 20-foot-wide strip of cleared land, an approximate 9,543 square foot

bioswale is proposed on the north side of the roadway and an approximate 13,443 square foot planted stabilization berm is proposed on the south side of the roadway. Appropriate native species will be utilized within the vegetated bioswale and stabilization berm.

On the south side of the road at two sections of the road, an eastern and western section, a planted berm with soil will be constructed for stabilization and connected to a stone revetment (geotextile fabric and armor stone) which will be anchored into a vegetated low sill bulkhead up to the mean high-water line. The two sections are approximately 40 feet in length and total approximately 20,322 square feet.

In accordance with the Memorandum of Understanding ("MOU") between EPA and HUD dated August 24, 1990, GOSR hereby requests an Initial Screen/Preliminary Review for the Seaford Road Raising and/or Drainage Improvements Project. Please review the attached documentation, including Attachment 2.A and 3 to the MOU. Responses can be sent to me via email at Alicia.Shultz@nyshcr.org. In accordance with the MOU, please respond within fifteen days. If you have any questions, please call me at (518) 474-0647.

Sincerely,

Alicia Shultz
Senior Environmental Scientist
New York State Homes & Community Renewal
Governor's Office of Storm Recovery
38-40 State St.,408N, Hampton Plaza, Albany, NY 12207

Enclosures:

2.A Non-housing/Project Activity Initial Screen Criteria
3 SSA Preliminary Review Information Requirements

Attachments:

1. Maps showing project location and EPA SSA Map
2. Design Plan 60 percent

ATTACHMENT 2.A

NON-HOUSING/PROJECT ACTIVITY INITIAL SCREEN CRITERIA

The following list of criteria questions are to be used as an initial screen to determine which **non-housing** projects/activities should be forwarded to the Environmental Protection Agency (EPA) for Preliminary Sole Source Aquifer (SSA) Review. (For housing projects/activities see Attachment 2.B) If any of the questions are answered affirmatively, Attachment 3, SSA Preliminary Review Requirements, should also be completed. The application/final statement, this Attachment, Attachment 3, and any other pertinent information should than be forwarded to EPA at the address below.

Any project/activity not meeting the criteria in this Attachment, but suspected of having a potential adverse effect on the Sole Source Aquifer should also be forwarded.

CRITERIA QUESTIONS	YES	NO	N/A
1. Is the project/activity located within a currently designated or proposed groundwater sensitive area such as a special Ground Water Protection Area, Critical Supply Area, Wellhead Protection Area, etc.? [This information can be obtained from the County or Regional Planning board, the local health department, the State health department or the State environmental agency.]	☐	☒	☐
2. Is the project/activity located within a one half mile radius (2640 feet) of a current or proposed public water supply well or wellfield? [This information can be obtained from the local health department, the State health department or the State environmental agency.] 2565039: Dougherty Water Company, NY5110609 2565040: McCarren Water Supply, NY5110610	☒	☐	☐

3. Will the project/activity include or directly cause (check appropriate items):

	YES	NO	N/A
construction or expansion of solid waste disposal, recycling or conversion facilities	☐	☒	☐
construction or expansion or closure of landfills	☐	☒	☐
construction or expansion of water supply facilities	☐	☒	☐
construction or expansion of on-site wastewater treatment plants or sewage trunk lines	☐	☒	☐
construction or expansion of gas or petroleum trunk lines greater than 1320 feet	☐	☒	☐
construction or expansion of railroad spurs or similar extensions	☐	☒	☐
construction or expansion of municipal sewage treatment plants	☐	☒	☐

4. Will the project/activity include storage or handling of any hazardous constituents as listed in Attachment 4, Hazardous Constituents	☐	☒	☐
5. Will the project/activity include bulk storage of petroleum in underground or above ground tanks in excess of 1100 gallons? (Please give what assurance they are done in a proper manner.)	☐	☒	☐
6. Will the project/activity require a federal or state discharge elimination permit or modification of an existing permit?	☐	☒	☐

This attachment was completed by:

Name:	Alicia Shultz
Title:	Senior Environmental Scientist
Address:	38-40 State Street, Hampton Plaza
	Albany, NY 12207
Telephone number:	518-474-0647
Date:	08/14/2018

ATTACHMENT 3

SSA PRELIMINARY REVIEW INFORMATION REQUIREMENTS

Where currently available, the information in this Attachment should be provided to the Environmental Protection Agency (see address below) along with the application/final statement; Attachment 2.A, Non-Housing Initial Screen Criteria or Attachment 2.B, Housing Initial Screen Criteria; and any other information which may be pertinent to a Sole Source Aquifer review. Where applicable, indicate the source of your information.

I. Project/Activity Location	**Enclosed?**	
	Yes	No
1. Provide the geographic location and total acreage of the project/activity site. Include a site map which identifies the site in relation to the surrounding area. [Examples of maps which can be used include: 1:24,000 or 1:25,000 U.S. Geological Survey quadrangle sheet, Hagstroms Street Map.]	☒	☐
2. If applicable, identify which groundwater sensitive areas (Special Ground Water Protection Area, Critical Supply Area, Wellhead Protection Area, etc.) the project/activity is located within or adjacent to. [This infomraiton may be obtained from the County or Regional planning board, the local health department, the State health department or the State environmental agency.]	☒	☐

II. Nature of Project/Activity	**Enclosed?**	
	Yes	No
3. Provide a general narrative describing the project/activity including but not limited to: type of facility; type of activities to be conducted; number and type of units; number of residents, etc. Provide the general layout of the project/activity site and site-plan if available.	☒	☐

III. Public Water Supply	**Enclosed?**	
	Yes	No
4. Provide a description of plans to provide water supply. **Not applicable, road construction.**	☐	☒

5. Provide the location of nearby existing or proposed public water supply wells or wellfields within one half mile radius (2640 feet) of the project/activity. Provide the name of the supplier(s) of those wells or wellfields. This information should be available from the local health department, State health department or the State environmental agency. **See supplement response to number 2 above.** Oak Beach Community	☒	☐

IV. Wastewater and Sewage Disposal	**Enclosed?**	
	Yes	No
Not applicable – road work 6. Provide a description of plans to handle wastewater and sewage disposal. If the project/activity is to be served by existing public sanitary sewers provide the name of the sewer district.	☐	☒
7. Provide a description of plans to handle storm water runoff.	☐	☒
8. Identify the location, design, size of any on-site recharge basins, dry wells, leaching fields, retention ponds, etc.	☐	☒

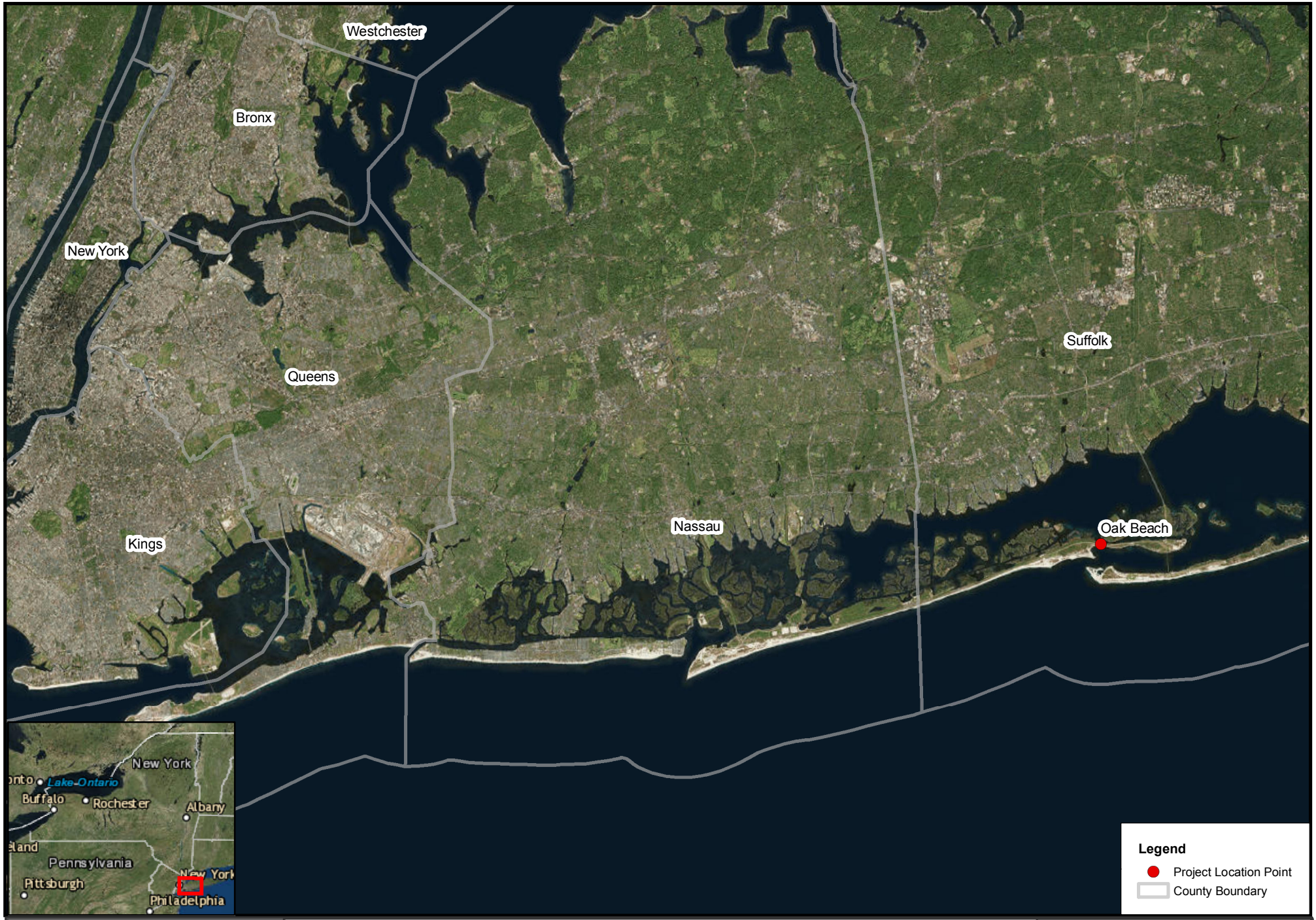
V. Use, Storage, Transport of Hazardous or Toxic Materials *(Applies only to non-housing projects/activities)*	**Enclosed?**	
	Yes	No
9. Identify any products listed in Attachment 4, Hazardous Constituents, of the Housing and Urban Development-Environmental Protection Agency Memorandum of Understanding which may be used, stored, transported, or released as a result of the project not related to construction	☐	☒
10. Identify the number and capacity of underground storage tanks at the project/activity site. Identify the products and volume to be stored, and the location on the site.	☐	☒
	☐	☒

11. Identify the number and capacity of above ground storage tanks at the project/activity site. Identify the products and volume to be stored, and the location on the site		

This form was completed by:

Name:	Alicia Shultz
Title:	Senior Environmental Scientist
Address:	1533 Scotch Ridge Road
	Schenectady, New York 12306
Telephone number:	518 817 2873
Date:	08/15/2018

Attachment 1



0 3.25 6.5 Miles

Oak Beach Shoreline Stabilization & Roadway Improvements
Town of Babylon, Suffolk County, New York

Data Sources: Esri Topographic and World Imagery Basemap, NYOPDIG, NYDEC, USGS, USFWS, FEMA, NYC MapPluto, EPA OAR-OAQPS, NYS GIS Clearinghouse

Governor's Office of Storm Recovery

N

Drawn By: ASL | Version: 1.0 | Date:8/7/2018

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FEMA data uses NAVD88*

0 0.05 0.1 Miles

Oak Beach Shoreline Stabilization & Roadway Improvements
Town of Babylon, Suffolk County, New York

Data Sources: Esri Topographic and World Imagery Basemap, NYOPDIG, NYDEC, USGS, USFWS, FEMA, NYC MapPluto, EPA OAR-OAQPS, NYS GIS Clearinghouse

Governor's Office of Storm Recovery

N

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0 600 1,200 Feet

Oak Beach Shoreline Stabilization & Roadway Improvements

Town of Babylon, Suffolk County, New York

Half-Mile Buffer SSA and SWAP Analysis

Governor's Office of Storm Recovery

N

Drawn By: ASL | Version: 1.0 | Date:8/7/2018

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Attachment 2

TOWN OF BABYLON
DEPARTMENT OF PUBLIC WORKS

KEY MAP
NTS

PLANS FOR

OAK BEACH COMMUNITY SHORELINE STABILIZATION AND ROADWAY IMPROVEMENTS

SUFFOLK COUNTY, NEW YORK

THIS PROJECT IS FUNDED IN PART THROUGH NEW YORK STATE GOVENOR'S OFFICE OF
STORM RECOVERY - DISASTER RECOVERY AND FEDERAL FUNDS COMMUNITY DEVELOPMENT BLOCK GRANTS

60% DESIGN PLANS

CONTRACT NO. XXXX

AUGUST 2018

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, PROFESSIONAL ENGINEERING AND LAND SURVEYING, SECTION 7209 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

CONSULTANT
NELSON & POPE
ENGINEERS | ARCHITECTS | SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747-2188
PHONE: 631.427.5665 • FAX: 631.427.5620 • NELSONPOPE.COM

No.	DATE	REVISION	BY:
-	-	-	-/-

DWN. BY:	TK
CHK'D BY:	RS
DATE:	JULY 2018
JOB No.:	18110
CADD:	COV
SCALE:	NONE
DRAWING NUMBER:	C-1
SHEET:	1 OF 11

GENERAL NOTES:

MISCELLANEOUS

1. ALL GENERAL WORK IN THIS CONTRACT SHALL CONFORM TO THE THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION SEPTEMBER 1, 2017 STANDARD SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED. ALL BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THESE SPECIFICATIONS, THE NYSDOT STANDARDS AND ALL REFERENCED SPECIFICATIONS, STANDARDS, AND REQUIREMENTS.

2. IT SHOULD BE NOTED THAT SPECIFICATIONS FOR CERTAIN CONTRACT ITEMS CONTAINED HEREIN REFER DIRECTLY OR INDIRECTLY TO THE SPECIFICATIONS FOR OTHER ITEMS FOR STANDARDS OF WORKMANSHIP, METHODS, EQUIPMENT, QUALITY OF MATERIALS, ETC. EVEN THOUGH THE ITEMS REFERRED TO ARE NOT INCLUDED IN THE PROPOSAL. NO ADDITIONAL PAYMENT WILL BE MADE BY REASON OF SUCH REFERENCE. THE COST OF WORK, MATERIALS, EQUIPMENT, OR PROCEDURES REFERRED TO SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS ITEMS IN THE PROPOSAL.

3. ALL OPERATIONS SHALL BE CONDUCTED SO AS NOT TO INTERFERE WITH, INTERRUPT OR ENDANGER NEW YORK STATE PARK LAND.

4. AREAS BEYOND THE WORK LIMITS DISTURBED FOR ANY REASON, BY THE CONTRACTOR AND HIS EMPLOYEES, SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

5. THE CONTRACTOR SHALL TAKE PRECAUTIONS NOT TO LEAVE DEBRIS, MATERIALS, AND TOOLS, ETC., ON THE ROADWAY SURFACE WHEN LEAVING THE WORK AREA. IN ADDITION, THE CONTRACTOR SHALL TAKE PRECAUTIONS THAT NO DEBRIS, ETC., INTERFERES WITH ADJACENT OPEN TRAFFIC LANES AND PEDESTRIAN WALKS.

6. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS (CURB, SIDEWALK, ASPHALT, GUTTER, SOD, PAVEMENT, ETC.) IN-KIND.

7. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT DUE TO THE NATURE OF RECONSTRUCTION THIS PROJECT, THE EXACT EXTENT OF RECONSTRUCTION THE WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER AVAILABLE INFORMATION. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER.

PAVING

8. THE CONTRACTOR SHALL RESURFACE ALL MILLED PAVEMENT WITHIN 14 DAYS OF MILLING.

9. ANY OF THE EXISTING ASPHALT OVERLAY WHICH DOES NOT FIRMLY ADHERE TO EXISTING PAVEMENT, AS DETERMINED BY THE ENGINEER, SHALL BE REMOVED UNDER VARIOUS CONTRACT ITEMS. ALL LOOSE ASPHALT THUS REMOVED, AND ASPHALT REMOVED PRIOR TO THE START OF WORK, SHALL BE REPLACED WITH NEW ASPHALT CONCRETE UNDER THE TOP COURSE ITEM.

10. THE PROVISIONS REGARDING USAGE OF A TAUT REFERENCE LINE DO NOT APPLY TO THIS CONTRACT. THE CONTRACTOR WILL NOT BE REQUIRED TO UTILIZE A TAUT REFERENCE LINE FOR PLACEMENT OF THE ASPHALT RESURFACING PROVIDED HE CAN PLACE THE ASPHALT WITHIN THE SURFACE TOLERANCES NOTED IN THE SPECIFICATIONS.

11. PROVISIONS OF THE PAVEMENT MILLING ITEM ALLOWING REMOVAL OF MILLED MATERIAL BY SEPARATE EQUIPMENT PROVIDED SUCH REMOVAL IS ACCOMPLISHED AT A RATE EQUIVALENT TO THE MILLING RATE DO NOT APPLY IN THIS CONTRACT. THE CONTRACTOR SHALL ONLY UTILIZE MILLING MACHINES HAVING INTEGRAL LOADING SYSTEMS.

12. TACK COAT – IN ADDITION TO THE DISTRIBUTOR EQUIPMENT, SMALL POWER SPRAY UNITS OF HAND-HELD SPRAY EQUIPMENT, AS APPROVED BY THE ENGINEER, MAY BE USED IN THE AREAS WHERE USE OF THE DISTRIBUTOR IS IMPRACTICAL, SUCH AS; NARROW IRREGULAR AREAS, INTERSECTIONS, AND OTHER LOCATIONS WHERE TRAFFIC MUST BE ALLOWED TO CROSS THE PAVEMENT AND IN AREAS WHERE THE DISTANCE BETWEEN INTERSECTIONS IS SHORT AS DETERMINED BY THE ENGINEER.

13. TACK COAT SHALL BE APPLIED WHENEVER RESURFACING:(1) ANY PORTLAND CEMENT CONCRETE PAVEMENT;2) ANY MILLED PAVEMENT; AND(3) ANY ASPHALT CONCRETE PAVEMENT EXCEPT WHEN THE EXISTING SURFACE IS EXCESSIVELY FLUSHED, AS DETERMINED BY THE ENGINEER.

    IN ADDITION, TACK COAT SHALL BE APPLIED TO CONTACT SURFACES BETWEEN ALL HOT MIX ASPHALT PAVEMENT LIFTS REGARDLESS OF TIME PERIOD BETWEEN LIFTS OR CONSTRUCTION VEHICLE USE (EXCLUDING THE SURFACE OF PERMEABLE BASE MATERIAL).

14. WHERE NOTCHES ARE CUT INTO THE EXISTING PAVEMENT IN PREPARATION FOR THE OVERLAY AT THE LIMITS OF RESURFACING, PRIOR TO REOPENING THE ROADWAY TO TRAFFIC, THE CONTRACTOR SHALL EITHER PLACE THE PROPOSED ASPHALT OVERLAY IMMEDIATELY OR PLACE A TEMPORARY WEDGE (1 ON 60) OF ASPHALT TO ELIMINATE THE BUMP CREATED BY THE NOTCH. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE PAVING ITEMS.

15. CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 403 OF THE STANDARD SPECIFICATIONS. WHEN HOT MIX ASPHALT IS TO BE PLACED BY BITUMINOUS PAVER THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN A CONSISTENT GRADATION ACROSS THE MAT. THIS MAY INCLUDE, BUT NOT BE LIMITED TO, REMIXING OF MATERIAL TRANSFERRED FROM THE HAULING UNIT. THE CONTRACTOR SHALL USE EQUIPMENT SUCH AS MOBILE CONVEYER, MATERIAL TRANSFER VEHICLE DEVICE, SHUTTLE BUGGY, MATERIAL TRANSFER PAVER, OR PAVER WITH REMIXER CONVEYOR SYSTEM. THE ENGINEER WILL CONSIDER OTHER TYPES OF EQUIPMENT OR MODIFICATIONS TO PAVERS, WHICH WILL MINIMIZE SEGREGATION. RAVELING THAT MAY OCCUR TO THE ASPHALT MAT THAT IS SUBJECT TO TRAFFIC DURING ANY PHASE OF CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL NECESSARY REPAIRS TO RAVELED AREAS SHALL BE REPAIRED AT NO COST TO THE STATE. THIS WORK MAY INCLUDE, BUT IS NOT LIMITED TO, SAW CUTTING, REMOVAL OF RAVELED/UNSTABLE HOT MIX ASPHALT AND PLACEMENT OF NEW HOT MIX ASPHALT MATERIAL IN REPAIR AREA.

    THE PAVER SHALL HAVE A CONSTANT FLOW/HEAD OF MATERIAL. THE WINGS OF THE PAVER RECEIVING HOPPER SHALL NOT BE RAISED (DUMPED) AT ANY TIME DURING THE PAVING OPERATION. STOPPING OF PAVING MACHINE SHALL BE KEPT TO A MINIMUM. BROADCASTING OF LOOSE MATERIAL OVER THE PAVED MAT WILL NOT BE PERMITTED.

16. WHEN REMOVING EXISTING ASPHALT WITHIN AN AREA TO BE RESURFACED, THE CONTRACTOR SHALL REMOVE THE MATERIAL TO A NEAT LINE HAVING A MAXIMUM DEVIATION FROM THE STRAIGHT OF 4 INCHES IN 10 FEET AND AOBE TO PERMIT PROPER AND ADEQUATE REPLACEMENT AND COMPACTION OF THE NEW ASPHALT. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK BUT THE COST SHALL BE INCLUDED IN THE PRICE BID FOR UNCLASSIFIED EXCAVATION.

SAW CUTTING

17. NO PAYMENT WILL BE PAID UNDER THE SAWCUT ITEMS, IF THE PAYMENT FOR SAWCUT IS INCLUDED IN OTHER ITEMS.

SURVEY

21. THE DATUM USED ON THIS CONTRACT IS THE MEAN SEA LEVEL ELEVATION 0.000 FT AT SANDY HOOK, NEW JERSEY AS DETERMINED BY THE UNITED STATES COAST AND GEODETIC SURVEY. COORDINATES IN THE N.Y.S. SYSTEM AS ESTABLISHED FOR LONG ISLAND BY THE US COAST AND GEODETIC SURVEY. BEARINGS ARE REFERRED TO THE TRUE NORTH AT 74°-00'WEST LONGITUDE. THE HORIZONTAL COORDINATES ARE EXPRESSED IN US SURVEY FEET IN THE N.Y. STATE PLANE COORDINATE SYSTEM, LONG ISLAND ZONE (ZONE 3104). VERTICAL DATUM IS NAVD AS ESTABLISHED BY THE NGS ON BENCHMARK U38 (PID# KU0149)

22. THE CONTRACTOR SHALL EMPLOY A LICENSED SURVEYOR TO PERFORM ANY REQUIRED LAYOUT, ESTABLISHMENT OF ELEVATIONS AND GRADES, PRIOR TO CONSTRUCTION. THE CONTRACTOR'S HIRED LICENSED SURVEYOR SHALL ALSO COMPLETE A SIGNED AND SEALED AS-BUILT SURVEY POST CONSTRUCTION THAT WILL BE SUBMITTED TO BNL BY THE CONTRACTOR. THE COST FOR ALL SURVEY RELATED WORK SHALL BE PAID FOR UNDER THE SURVEY ITEM.

23. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NOT TO DISTURB ANY MONUMENTS AND BENCH MARKS WITHIN PROJECT LIMITS PRIOR TO THE START OF ANY EXCAVATION. ANY EXPENSE INCURRED IN REPLACING MONUMENTS OR BENCHMARKS THAT THE CONTRACTOR, OR ANY EMPLOYEE, MAY HAVE FAILED TO PRESERVE SHALL BE PAID BY THE CONTRACTOR AT NO ADDITIONAL COST TO BROOKHAVEN NATIONAL LABORATORY.

24. THE CENTERLINE SHOWN ON THESE PLANS IS APPROXIMATE AND IS SHOWN FOR TABULATING AND FILING PURPOSES ONLY. THE CENTERLINE STATIONING MAY BE ESTABLISHED BY FLAT CHAINING ALONG THE EXISTING SURFACE UTILIZING CONTROLS FURNISHED BY THE ENGINEER. PAYMENT SHALL BE INCLUDED IN THE SURVEY OPERATIONS ITEM 625.01.

LANDSCAPING

25. TREES AND SHRUBS ARE TO BE PRUNED IN ACCORDANCE WITH CLEARING AND GRUBBING AND THE FOLLOWING REQUIREMENTS. ALL COSTS SHALL BE INCLUDED IN THE PRICE BID FOR CLEARING AND GRUBBING.

    (A) THE CONTRACTOR SHALL CAREFULLY CUT OFF ALL BRANCHES OF PLANTS HANGING WITHIN 16 FEET ABOVE ANY PART OF THE ROADWAY OR WITHIN 2 FEET OF THE EDGE OF THE SHOULDER. BRANCHES SHALL BE TRIMMED AT THE TRUNK TO MAINTAIN A CALLOUS RIDGE.

    (B) PRUNING MAY BE REQUIRED BEYOND THE LIMITS INDICATED IN ORDER TO MAINTAIN ADEQUATE SIGHT DISTANCE FOR ALL TRAFFIC SIGNS AND SIGNALS. ADDITIONAL BRANCH PRUNING MAY ALSO BE REQUIRED ON ANY TREE WHERE BRANCHES ARE REMOVED IN ORDER TO MAINTAIN AN ESTHETIC BALANCE. ALL SUCH ADDITIONAL PRUNING SHALL BE AS ORDERED BY THE ENGINEER.

    (C) ALL WORK SHALL BE DONE ACCORDING TO ACCEPTABLE HORTICULTURAL AND PRUNING PRACTICES.

    (D) THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE ANY EXISTING TREES THAT ARE TO REMAIN. ANY DAMAGE THROUGH CARELESSNESS OF THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE, AOBE.

CLEARING AND GRUBBING

26. CLEARING AND GRUBBING SHALL INCLUDE THE REMOVAL OF ALL TREES, AS SHOWN ON THE PLANS OR AS ORDERED BY THE ENGINEER. THE CONTRACTOR SHALL NOTIFY THE E.I.C TWO (2) WEEKS PRIOR TO REMOVAL OF ANY TREES AND SHALL NOT START HIS OPERATION UNTIL APPROVED BY THE ENGINEER.

27. THE CONTRACTOR SHALL PERFORM THE APPROPRIATE SUBGRADE DENSITY TESTING UPON COMPLETION OF FINE GRADING OF SUBGRADE MATERIAL FOR THE CONSTRUCTION OF THE ROADWAY AS PER THE LATEST NYSDOT SPECIFICATIONS AND STANDARDS, AOBE.

SOIL AND SOIL EROSION CONTROL

28. THE COST FOR ANY NECESSARY DEWATERING SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS CONTRACT ITEMS.

SIGNS

29. ALL EXISTING SIGNS THAT ARE DAMAGED OR REMOVED BY CONSTRUCTION PROCESSES UNDER THIS WORK SHALL BE RESET OR REPLACED AS REQUIRED OR AS ORDERED BY THE ENGINEER RESPONSIBLE FOR CONSTRUCTION INSPECTION.

30. CURRENT REQUIREMENTS FOR LATERAL CLEARANCE AND HEIGHT REQUIREMENTS FOR SIGNS ARE GIVEN ON THE STANDARD SHEET TITLED POSITIONING OF TRAFFIC SIGNS.

UTILITIES

31. CONTRACTOR SHALL CONTACT UTILITIES FOR MARK-OUT OF ALL UTILITIES PRIOR TO CONSTRUCTION.

32. EXISTING UNDERGROUND AND OVERHEAD UTILITIES AS SHOWN HEREIN HAVE BEEN DETERMINED BY STANDARD SURVEYING METHODS AND AVAILABLE RECORDS. NEITHER THE EXACT LOCATION NOR THE INFORMATION OF THESE EXISTING UTILITIES IS GUARANTEED TO BE COMPLETE OR CORRECT.

SHEET INDEX:

PAGE NUMBER(S)	DRAWING NUMBER(S)	SHEET TITLE
1	C-1	COVER SHEET
2	LGND-1	LEGEND PLAN
3	TYP-1	TYPICAL SECTION
4	DET-1	MISCELLANEOUS DETAILS
5	WTZC-1	WORK ZONE TRAFFIC CONTROL
6	AP-1	ALIGNMENT PLAN
7	OVR-1	OVERALL PLAN
8-10	CP 1-3	CONSTRUCTION PLAN
11	LP 1	LANDSCAPE PLAN

FEATURE	SYMBOL EXISTING	SYMBOL PROPOSED (SEE PLANS)
BOUNDARIES		
HIGHWAY BOUNDARY LINE		
VILLAGE, CITY OR TOWN LIMITS		
BUILDING		
BUILDING LINE		
ROADWAY AND SIDEWALK		
TRAVERSABLE CURB		
CURB LINE		
SIDEWALK	SW	
DECORATIVE CONCRETE ISLAND		
TRUCK APRON		
DRIVEWAY APRON		
SIDEWALK RAMP (REINFORCED CONCRETE)		
TRAFFIC FLOW		
ASPHALT ROAD		
VEGETATION		
TREES, DECIDUOUS		
TREES, CONIFEROUS		
SHRUBS, BUSHES		
GRASS RESTORATION		
TRAFFIC SIGNAL SYSTEMS		
PULLBOX		
SPAN WIRE	SPAN	
TRAFFIC SIGNAL POLE		
TRAFFIC SIGNAL POLE WITH CONTROLLER CABINET		
CONTROLLER OR DETECTOR CABINET		
TRAFFIC SIGNAL FACE		
PEDESTRIAN SIGNAL FACE		
PEDESTRIAN PUSH BUTTON		
ALUMINUM VEHICLE DETECTOR HOUSING		
AERIAL TRAFFIC SIGNAL COMMUNICATION CABLE	TS TS	
UNDERGROUND TRAFFIC SIGNAL CONDUIT		
LOOP DETECTOR	LOOP	
SURVEY DATA		
SPOT ELEVATION	X 34.13	X 34.13
BASELINE		
HORIZONTAL CONTROL LINE		
EROSION CONTROL		
SILT FENCE		
DRAINAGE STRUCTURE PROTECTION		
STREET LIGHTING SYSTEM		
PULLBOX		
LIGHT FIXTURE		

FEATURE	SYMBOL EXISTING	SYMBOL PROPOSED (SEE PLANS)
UTILITIES BELOW GROUND		
STORM DRAIN INLET		
GAS VALVE		
WATER VALVE		
ELECTRIC LINE	E	
FIRE COMMUNICATIONS LINE	FD	
GAS LINE	8"G	
SANITARY SEWER LINE	S	
STORM DRAINAGE LINE	D	
TELEPHONE LINE	T	
WATER LINE	8"W	
INFORM LINE	INFORM	
CABLEVISION LINE	CA	
ELECTRIC MANHOLE	E	
GAS MANHOLE	G	
LIPA MANHOLE	L	
SANITARY SEWER MANHOLE	S	
STORM DRAINAGE MANHOLE	D	
TELEPHONE MANHOLE	T	
FIRE HYDRANT		
STREET LIGHT		
FIELD INLET		
UTILITIES ABOVE GROUND		
MISCELLANEOUS OVERHEAD WIRES	OHW OHW	
GUY WIRE		
UTILITY POLE		
UTILITY POLE WITH RISER		
MISCELLANEOUS FEATURES		
SIGNS		
GUIDE RAIL		
MEDIAN BARRIER		
RETAINING WALL		
FENCE		
NORTH ARROW (TRUE)		
TOPOGRAPHY		
CONTOURS	36.5 36.0 37.0	36.5 36.0 37.0
LIMIT OF RESTORATION, GRADING OR CLEARING AND GRUBBING		

LEGEND:

- STONE REVETMENT
- PLANTED/ STABILIZED BERM
- BIO SWALE AREA
- FULL DEPTH ASPHALT RECONSTRUCTION
- FLUSH CONCRETE CURB
- DECORATIVE TIMBER RAIL

TOPOGRAPHIC ABBREVIATIONS

E	ELECTRIC
G	GAS
GP	GUY POLE
GSB	GAS SERVICE BOX (HOUSE CONNECTION)
GV	GAS VALVE (MAIN LINE)
HPG	HIGH PRESSURE GAS
HYD	HYDRANT
LP	LIGHT POLE
LPG	LOW PRESSURE GAS
SA	SANITARY SEWER
ST	STORM DRAINAGE DEWRE
T	TELEPHONE
TEL P	TELEPHONE POLE
CA	CABLE TELEVISION
W	WATER
WM	WATER METER
WSB	WATER SERVICE BOX (HOUSE CONNECTION)
WV	WATER VALVE (MAIN LINE)
ABUT	ABUTMENT
AOBE	AS ORDERED BY THE ENGINEER
ASPH	ASPHALT
BLDG	BUILDING
BM	BENCH MARK
BR	BRIDGE
CONC	CONCRETE
CONST	CONSTRUCTION
CR	COUNTY ROAD
DWY	DRIVEWAY
EP	EDGE OF PAVEMENT
ES	EDGE OF SHOULDER
FP	FENCE POST
FND	FOUNDATION
FL	FENCE LINE
GAR	GARAGE
GR	GRAVEL
HO	HOUSE
HWY	HIGHWAY
MB	MAIL BOX
MON	MONUMENT
PAVT	PAVEMENT
RR	RAILROAD
RTE	ROUTE
ROW	RIGHT OF WAY
RW	RETAINING WALL
ST.	STREET
SW	SIDEWALK
TL	TREELINE
BC	BOTTOM OF CURB
CB	CATCH BASIN
CMP	CORRUGATED METAL PIPE
CULV.	CULVERT
DI	DROP INLET
EL	ELEVATION

DRAINAGE ABBREVIATIONS

BB	BOTTOM OF BANK (STREAM)
BC	BOTTOM OF CURB
BO	BOTTOM OF OPENING
CAP	CORRUGATED ALUMINUM PIPE
CB	CATCH BASIN
CI	CURB INLET
CIP	CAST IRON PIPE
℄ STRM	CENTERLINE OF STREAM
CMP	CORRUGATED METAL PIPE
CP	CONCRETE PIPE
CSP	CORRUGATED STEEL PIPE
CULV	CULVERT
DI	DROP INLET
D'XING	DITCH CROSSING
EHW	EXTREME HIGH WATER
ELEV OR EL	ELEVATION
ELW	EXTREME LOW WATER
ES	END SECTION
FI	FIELD INELT
HW	HEADWALL
INV	INVERT
LB	LEATCHING BASIN
MH	MANHOLE
MHW	MEAN HIGH WATER
OCMP	OBLATE CORRUGATED METAL PIPE
OHW	ORDINARY HIGH WATER
OLW	ORDINARY LOW WATER
RCP	REINFORCED CONCRETE PIPE
TB	TOP OF BANK
TC	TOP OF CURB
TG	TOP OF GRATE
TO	TOP OF OPENING
VCP	VITRIFIED CLAY PIPE
VTP	VITRIFIED TILE PIPE

ALIGNMENT ABBREVIATIONS

AH	AHEAD
AZ	AZIMUTH
BK	BACK
℄	BASELINE
BRG	BEARING
℄	CENTERLINE
CS	CURVE TO SPIRAL
D	DEGREE OF CURVE
DIA	DIAMETER
E MAX	MAXIMUM SUPERELEVATION
EQ	EQUALITY
EXT	EXTERNAL
HCL	HORIZONTAL CONTROL LINE
HSD	HEADLIGHT SIGHT DISTANCE
L	LENGTH OF CIRCULAR CURVE
LS	LENGTH OF SPIRAL
LVC	LENGTH OF VERTICAL CURVE
MC	CENTER CORRECTION OF VERTICAL CURVE
ℳ	MAIN LINE
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
POI	POINT ON LINE
PSD	PASSING SIGHT DISTANCE
PT	POINT OF TANGENT
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENT
R	RADIUS
SC	SPIRAL TO CURVE
SSD	STOPPONG SIGHT DISTANCE
ST	SPIRAL TO TANGENT
STA	STATION
T	TANGENT LENGTH
TGL	THEORETICAL GRADE LINE
TS	TANGENT TO SPIRAL
VC	VERTICAL CURVE

No.	DATE	REVISION	BY:
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CLIENT:
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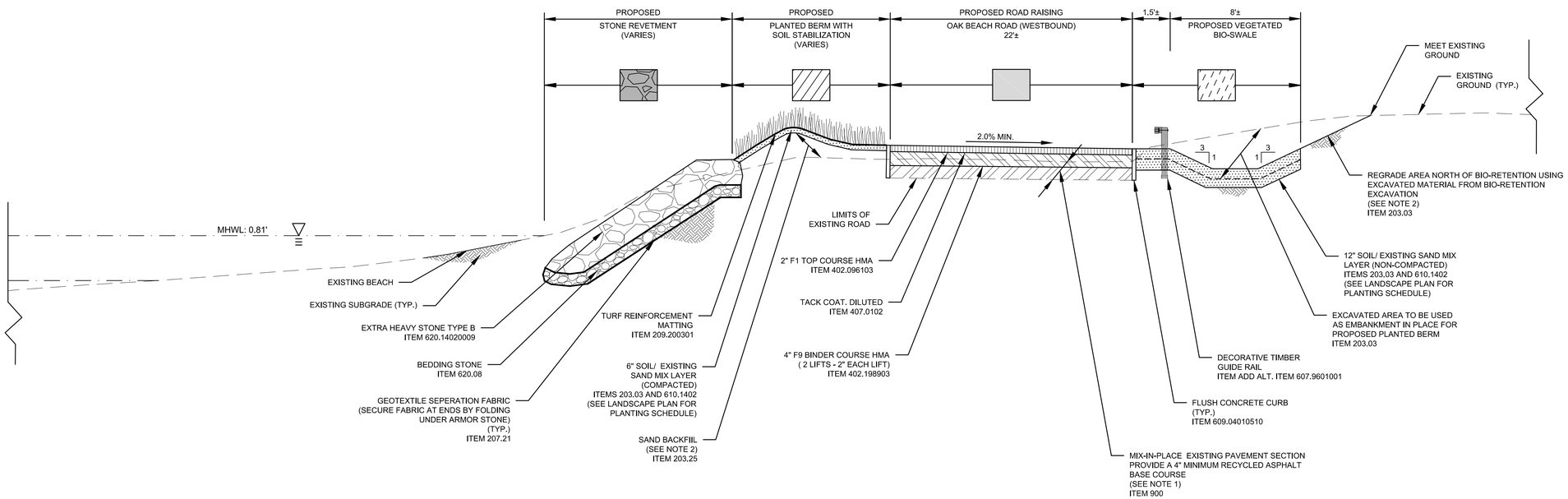
200 EAST SUNRISE HIGHWAY
LINDENHURST
NEW YORK 11757

DWN. BY:	TK
CHK'D BY:	RS
DATE:	JULY 2018
JOB No.:	18110
CADD:	COV.DWG
SCALE:	AS SHOWN

DRAWING TITLE:
LEGEND PLAN - 1
OAK BEACH COMMUNITY SHORELINE
STABILIZATION AND ROADWAY IMPROVEMENTS
BABYLON, NEW YORK

DRAWING NUMBER:
LGND-1

SHEET: 2 OF 11



TYPICAL SECTION A

NOT TO SCALE

NOTES:

1. ITEM 304.10119917 SHALL BE USED ONLY WHEN APPROVED BY THE ENGINEER FOR GRADATION PURPOSES, OR, IN FILL AREAS BELOW THE PAVEMENT BASE COURSE ONLY AFTER ALL EXCESS EXISTING MATERIAL FROM ITEM 900 OPERATIONS HAS BEEN USED.
2. ITEM 203.25 (SAND BACKFILL) SHALL BE USED AFTER ALL MATERIAL FROM ITEM 203.03 (EMBANKMENT IN PLACE) HAS BEEN USED.

60% DESIGN PLANS

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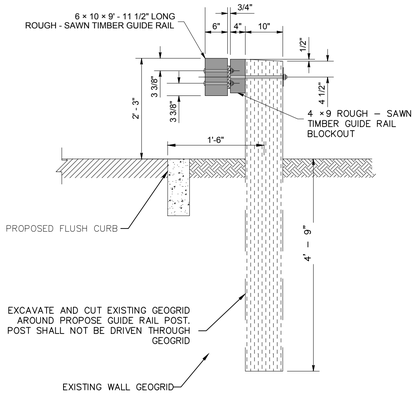
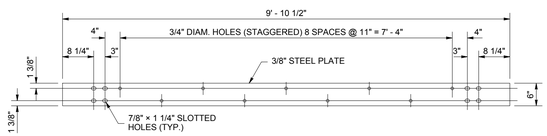
DRAWING TITLE:
TYPICAL SECTION -1
OAK BEACH COMMUNITY SHORELINE
STABILIZATION AND ROADWAY IMPROVEMENTS
BABYLON, NEW YORK

DRAWING NUMBER:
TYP - 1

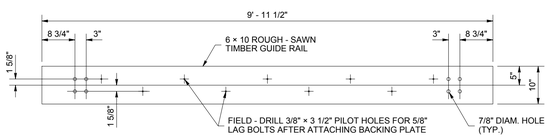
SHEET: 3 OF 11



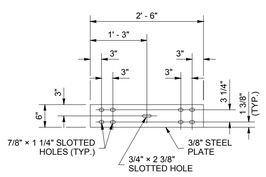
TIMBER GUIDE RAIL - SECTION A
ITEM 607.9601001
NOT TO SCALE



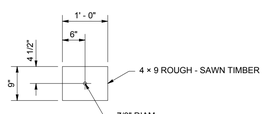
TIMBER GUIDE RAIL - STEEL BACKING PLATE
NOT TO SCALE



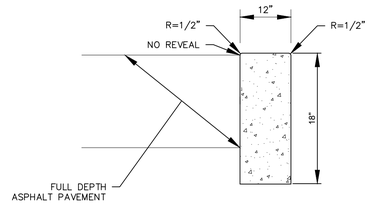
TIMBER GUIDE RAIL - TIMBER RAIL
NOT TO SCALE



TIMBER GUIDE RAIL
STEEL SPLICE PLATE
NOT TO SCALE



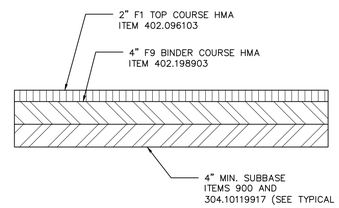
TIMBER GUIDE RAIL
RAIL BLOCKOUT
NOT TO SCALE



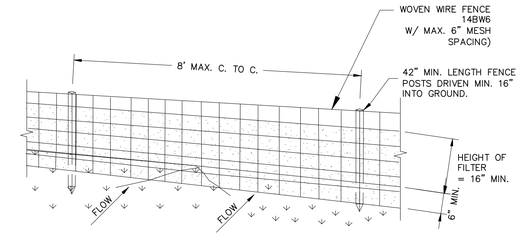
FLUSH CONCRETE CURB
N.T.S.
ITEM 609.04010510

CURB NOTE:

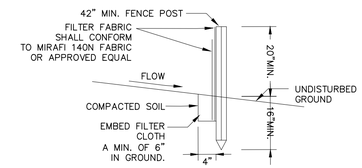
1. CONCRETE CURB SHALL BE CONSTRUCTED SO THAT THE FINAL TOP OF CURB GRADE MEETS THE PROPOSED GRADE OF THE TRUCK APRON AND/OR PAVEMENT TO ACHIEVE A FLUSH TRANSITION.



FULL DEPTH ASPHALT RESTORATION TYPICAL SECTION
N.T.S.



PERSPECTIVE VIEW

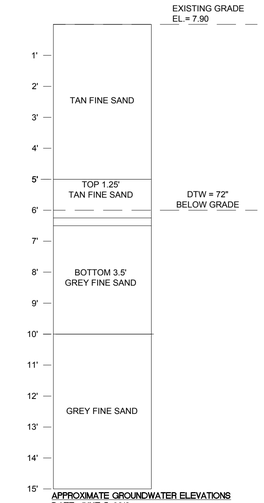


SECTION VIEW

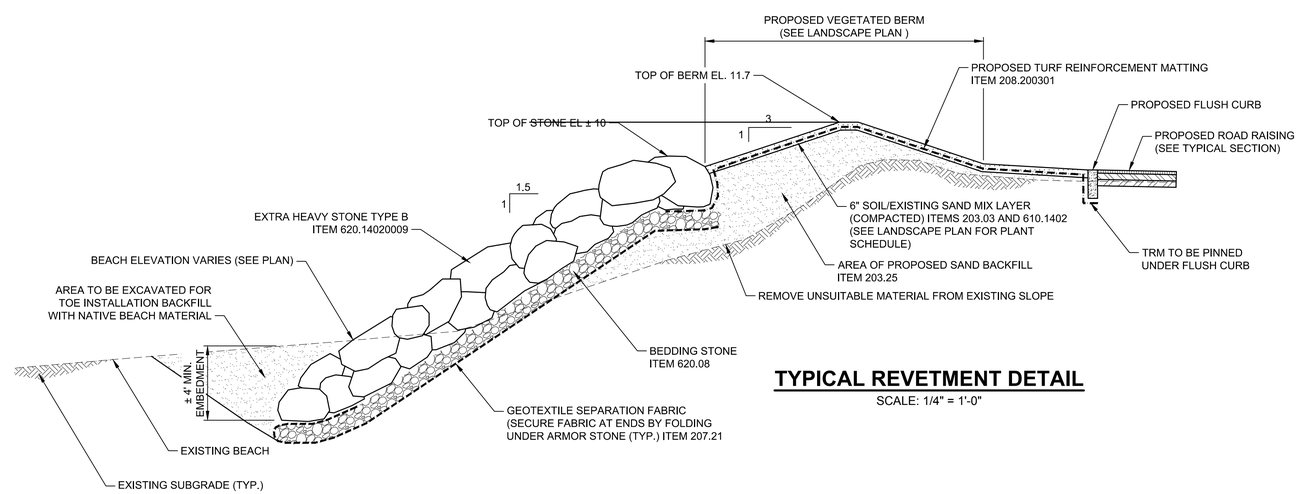
CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 14BW6 GAUGE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT BARRIER TEMPORARY
N.T.S.
ITEM 209.13



SOIL BORING LOCATION #1
NORTH SIDE
OAK BEACH RD
APPROX. 930 FEET EAST
OF HOUSE #221



TYPICAL REVETMENT DETAIL
SCALE: 1/4" = 1'-0"

60% DESIGN PLANS

No.	DATE	REVISION	BY:
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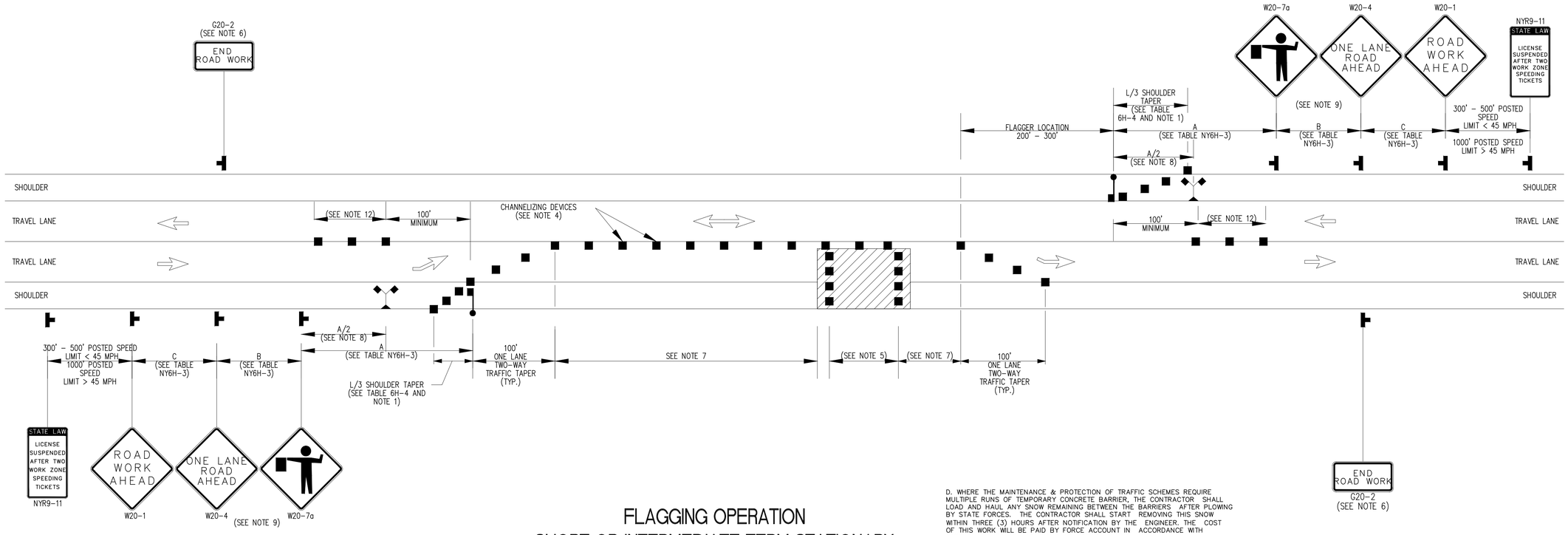
NEW YORK 11757

DWN. BY:	TK
CHK'D BY:	RS
DATE:	JULY 2018
JOB No.:	18110
CADD:	COV.DWG
SCALE:	AS SHOWN

DRAWING TITLE:
MISCELLANEOUS DETAILS-1
OAK BEACH COMMUNITY SHORELINE STABILIZATION AND ROADWAY IMPROVEMENTS
BABYLON, NEW YORK

DRAWING NUMBER:
DET - 1

SHEET: 4 OF 11



FLAGGING OPERATION
SHORT OR INTERMEDIATE TERM STATIONARY LANE CLOSURE ON 2-LANE 2-WAY ROADWAY

(NOT TO SCALE)

WORK ZONE TRAFFIC CONTROL NOTES:

1. WORK ZONE TRAFFIC CONTROL SCHEMES SHALL BE IN ACCORDANCE WITH THE PLANS, THE NATIONAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, NYS SUPPLEMENT, EI07-001, EI07--006, EI07--019, THE WORK ZONE TRAFFIC CONTROL (WORK ZONE TRAFFIC CONTROL CHECK LIST 06/22/07-23 VERSION OR AS ORDERED BY THE ENGINEER.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF TRAFFIC. MAINTENANCE OF TRAFFIC SCHEMES SHALL BE IN ACCORDANCE WITH THE PLANS, THE NATIONAL MUTCD, NYS SUPPLEMENT AND AS APPROVED OR DIRECTED BY THE ENGINEER. TRAFFIC SCHEMES SHOWN ON THE PLANS OR IN THE MUTCD ARE TO BE CONSIDERED MINIMUM REQUIREMENTS. THE ENGINEER MAY ORDER ADDITIONAL SIGNS, FLAGGERS, CONES, REFLECTORIZATION ETC., IF HE DEEMS IT NECESSARY.

3. THE CONTRACTOR MAY SUBMIT REVISIONS TO THIS PLAN FOR APPROVAL BY THE REGIONAL DIRECTOR OR HIS DESIGNEE.

4. UNDIVIDED HIGHWAYS: THE CONTRACTOR SHALL NOT WORK ON BOTH SIDES OF THE ROADWAY IN THE SAME AREA AT THE SAME TIME.

5. DIVIDED HIGHWAYS: THE CONTRACTOR SHALL NOT WORK ON BOTH SIDES OF ONE-WAY TRAFFIC (e.g. ON THE SHOULDER AND IN THE MEDIAN) IN THE SAME AREA AT THE SAME TIME.

6. WHEN THE CONTRACTOR IS WORKING WITHIN 10 FT OF A TRAVELED LANE, THE ENGINEER MAY REQUIRE THE ADJACENT TRAVEL LANE TO BE CLOSED.

7. ALL LANES MUST BE OPEN TO TRAFFIC BEFORE 10AM AND AFTER 3PM. NO LANE CLOSING ARE PERMITTED ON WEEKENDS OR HOLIDAYS. NIGHTTIME LANE CLOSINGS WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL FROM THE STATE PERMIT INSPECTOR.

   NO LANE CLOSINGS WILL BE PERMITTED ON NYS ROADWAYS ON HOLIDAYS:

   -FROM NOON ON THE FRIDAY BEFORE MEMORIAL DAY THROUGH LABOR DAY.
   -INDEPENDENCE DAY;
   -LABOR DAY;
   -VETERANS DAY;
   -FROM NOON THE DAY BEFORE THANKSGIVING DAY THROUGH THE SUNDAY FOLLOWING THANKSGIVING DAY;
   -THE DAY PRECEDING CHRISTMAS DAY;
   -CHRISTMAS DAY;
   -THE DAY BEFORE NEW YEAR'S DAY;
   -NEW YEAR'S DAY

   ALL LANES MUST BE OPEN TO TRAFFIC BEFORE 10 AM AND AFTER 3 PM.

   NO LANE CLOSURES ARE PERMITTED ON WEEKENDS OR HOLIDAYS.

   NIGHTTIME LANE CLOSINGS WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL FROM THE STATE PERMIT INSPECTOR.

8. THE FOLLOWING SHALL APPLY WHEN TRAVEL LANES ARE CLOSED: THE CONTRACTOR SHALL PLACE TWO PLASTIC DRUMS OR VERTICAL PANELS AT MAXIMUM 400 FT INTERVALS ADJACENT TO EACH OTHER IN THE MIDDLE OF EACH CLOSED LANE TO DISCOURAGE USE OF THE LANE BY VEHICLES. FOR THE FIRST 1000 FT OF CLOSURE AND FOR THE FIRST 1000 FT AFTER EACH ENTRANCE RAMP WITHIN THE CLOSURE, THIS INTERVAL SHALL BE REDUCED TO 200 FT. PLACEMENT OF THESE DRUMS OR VERTICAL PANELS SHALL BE IN ADDITION TO THE DEVICES SHOWN IN THE MAINTENANCE AND PROTECTION OF TRAFFIC SCHEMES OF THE MUTCD AND THOSE SHOWN ON THE PLANS.

9. WHENEVER WORK ZONE TRAFFIC CONTROL SCHEMES PROVIDING FOR ONE-LANE ROAD OPERATION ARE IN EFFECT, THE CONTRACTOR SHALL POSITION FLAGGERS AT THE LIMITS OF THE ONE-LANE ROAD OPERATION, AT ALL CROSS STREETS WITHIN THE ONE-LANE ROAD OPERATION, AT MAJOR DRIVEWAYS AND SUCH OTHER LOCATIONS AS REQUIRED BY THE ENGINEER TO CONTROL TRAFFIC. FLAGGERS SHALL BE EQUIPPED WITH TWO-WAY RADIOS, WHERE IN THE OPINION OF THE ENGINEER THE USAGE OF SUCH RADIOS IS NECESSARY TO CONTROL TRAFFIC. SUCH RADIOS SHALL HAVE SUFFICIENT TRANSMITTING POWER TO REACH ALL POINTS WITHIN THE LENGTH OF THE ONE-LANE ROAD OPERATION. GUIDELINES FOR THE USE OF SUCH RADIOS SHALL BE INCLUDED IN THE BASIC WORK ZONE TRAFFIC CONTROL ITEM.

10. WHEN CONES ARE USED IN CONTROLLING THE MOVEMENT OF TRAFFIC THROUGH WORK AREAS, THE CONTRACTOR SHALL TAKE STEPS AS NECESSARY TO PREVENT THE CONES FROM BEING BLOWN OVER OR DISPLACED BY PASSING VEHICLES. THE CONTRACTOR SHALL ACCOMPLISH THIS BY DOUBLING CONES, BY THE USE OF SAND BAG RINGS, OR BY OTHER SUCH MEANS AS MAY BE APPROVED BY THE ENGINEER WHICH SHALL PRESENT NO HAZARD TO MOTORISTS OR TO WORKERS IF THE CONES ARE STRUCK.

11. THE CONTRACTOR MUST NOTIFY THE ENGINEER, THE LOCAL COUNTY DEPARTMENT OF PUBLIC WORKS, LOCAL PUBLIC SCHOOLS, THE LOCAL COUNTY POLICE DEPARTMENT, AND THE TOWN FIRE DEPARTMENTS OF ALL DETOURS, PROPOSED STREET CLOSINGS, OR ANY WORK THAT MIGHT AFFECT THE MOBILITY OR ACCESS OF THE FIRE OR POLICE DEPARTMENT 5 WORKING DAYS IN ADVANCE OF THEIR IMPLEMENTATION. IN ADDITION, THE CONTRACTOR SHALL ENSURE THAT HYDRANTS AND ALARM BOXES ARE KEPT CLEAR AND AVAILABLE.

12. VARIOUS MAINTENANCE AND CONSTRUCTION SIGNS SPECIFIED IN PART 238 OF THE MUTCD ARE AVAILABLE IN THE STANDARD DIAMOND SHAPE AND AN ALTERNATE RECTANGULAR SHAPE. WHENEVER SUCH SIGNS ARE INCLUDED IN THIS CONTRACT, THE DIAMOND SHAPE SIGN SHALL BE USED, DESPITE OTHER INDICATIONS IN SECTION 238.1(C).

13. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 6F.02 OF THE MUTCD WHICH REQUIRES THAT WITH THE EXCEPTION OF THE RAILROAD ADVANCE WARNING SIGN, WARNING SIGNS USED IN CONJUNCTION WITH WORK ZONE ACTIVITIES SHOULD HAVE FLUORESCENT ORANGE BACKGROUNDS CLASS D WITH BLACK LETTERING OR SYMBOLS.

14. THE CONTRACTOR SHALL PLACE W8-1 "BUMP" SIGNS, W8-2 "DIP" SIGNS AND/OR W8-8 "ROUGH ROAD" SIGNS WHERE DIRECTED BY THE ENGINEER.

15. CONTRACTOR'S ATTENTION IS DIRECTED TO SUBSECTIONS 619-3.02 AND 645-3.17 OF THE STANDARD SPECIFICATIONS. EXISTING TRAFFIC SIGNS AND CONSTRUCTION SIGNS WITHIN THE WORK AREA WHICH ARE NO LONGER NEEDED, EVEN TEMPORARILY, OR ARE CONFLICTING, INAPPROPRIATE OR CONFUSING, SHALL BE REMOVED (SUBJECT TO THE APPROVAL OF THE ENGINEER) OR SHALL BE COVERED COMPLETELY WITH AN OPAQUE MATERIAL. THE COST OF THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR THE WORK ZONE TRAFFIC CONTROL ITEM.

16. IN ADDITION TO THE SIGNING REQUIRED IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, THE CONTRACTOR SHALL USE A FLASHING ARROW BOARD, INCLUDED IN ITEM 619.01 POSITIONED AT THE BEGINNING OF TAPER FOR ALL TRAVEL LANE CLOSINGS. ONE FLASHING ARROW BOARD WILL BE REQUIRED IN CONJUNCTION WITH THE LANE CLOSURE SHOWN IN FIGURE TASD-EI OF THE NYSDOT WORK ZONE TRAFFIC CONTROL, DATED OCTOBER 2005. THE FLASHING ARROW BOARD WILL NOT BE REQUIRED IN CONNECTION WITH SHOULDER CLOSINGS OR SIDE STREET LANE CLOSURES UNLESS THE ENGINEER ORDERS ITS USE.

17. ARROW BOARDS USING LIGHT EMITTING DIODES (LEDs) AS THE SOLE ILLUMINATING SOURCE WILL NOT BE PERMITTED.

    ARROW BOARDS SHALL DISPLAY A FLASHING ARROW FOR LANE CLOSURES. OTHER OPERATIONAL MODES SUCH AS SEQUENTIAL CHEVRONS, SEQUENTIAL ARROWS OR STEM ARROWS, ARE EXPLICITLY PROHIBITED FOR THESE APPLICATIONS, AND SHALL NOT BE USED ON DEPARTMENT PROJECTS.

    ARROW BOARDS UTILIZED FOR LANE SHIFTS SHALL BE SET TO 'CAUTION' MODE. THE FLASHING 'ARROW' DISPLAY SHALL NOT BE USED FOR LANE SHIFTS.

18. WHERE NECESSARY, OR AS REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL UTILIZE FLAGGERS AT DRIVEWAYS TO CONTROL TRAFFIC ENTERING THE TRAVEL WAY.

19. THE ENGINEER MAY ORDER TEMPORARY ASPHALT PATCHES AS NEEDED ON THE CONTRACT. THE HOT MIX ASPHALT USED FOR THIS WORK SHOULD BE AS DESIGNATED BY THE ENGINEER. COST FOR TEMPORARY ASPHALT PATCHING SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR THE MAINTENANCE AND PROTECTION OF TRAFFIC ITEM.

20. PROVISION FOR SNOW AND ICE REMOVAL OPERATIONS: IN ORDER TO ALLOW FOR SNOW AND ICE CONTROL BY STATE FORCES ON THE STATE HIGHWAYS AND BY LOCAL MUNICIPALITIES ON LOCAL ROADS, THE CONTRACTOR SHALL SCHEDULE HIS WORK IN ACCORDANCE WITH THE FOLLOWING:

    A. INTERFERENCE WITH SNOW PLOWING OPERATIONS BY DRUMS, BARRICADES AND OTHER TRAFFIC CONTROL EQUIPMENT SHALL BE KEPT TO A MINIMUM. ANY DEVICES DISTURBED OR DAMAGED BY SNOW AND ICE CONTROL OPERATIONS SHALL BE REPLACED AND/OR RESET AS NECESSARY AND AS SOON AS POSSIBLE BY THE CONTRACTOR.

    B. DRAINAGE FRAMES, GRATES AND COVERS AND OTHER CASTINGS SHALL NOT BE ADJUSTED IN A TRAVEL LANE UNLESS THE FINAL PAVEMENT COURSE IS TO BE PLACED PRIOR TO THE ONSET OF SNOW AND ICE WEATHER. STEEL PLATES, ETC. SHALL NOT PROTRUDE ABOVE THE ADJACENT PAVEMENT. IF ANY OF THESE PROTRUSIONS EXIST IN A NON-TRAVEL LANE PRIOR TO A SNOW AND ICE CONDITION, THEN TEMPORARY ASPHALT RAMPS MUST BE PLACED SO THAT FOR EVERY 1 MM OF RISE, THERE IS A 80 MM RUN OF RAMP.

    C. ALL PAVEMENT CUTS SHALL BE RESTORED TO THE ADJACENT PAVEMENT GRADE TO ELIMINATE RECESSED AREAS WHERE SNOW CANNOT BE PLOWED OR WHERE THE PLOWS MAY SNAG.

    D. WHERE THE MAINTENANCE & PROTECTION OF TRAFFIC SCHEMES REQUIRE MULTIPLE RUNS OF TEMPORARY CONCRETE BARRIER, THE CONTRACTOR SHALL LOAD AND HAUL ANY SNOW REMAINING BETWEEN THE BARRIERS AFTER PLOWING BY STATE FORCES. THE CONTRACTOR SHALL START REMOVING THIS SNOW WITHIN THREE (3) HOURS AFTER NOTIFICATION BY THE ENGINEER. THE COST OF THIS WORK WILL BE PAID BY FORCE ACCOUNT IN ACCORDANCE WITH SECTION 109-05 OF THE STANDARD SPECIFICATIONS.

21. THE CONTRACTOR SHALL SCHEDULE HIS OPERATIONS TO MINIMIZE THE INTERRUPTION OF PEDESTRIAN TRAFFIC. THE SIDEWALK ON ONE SIDE OF THE ROADWAY SHALL REMAIN OPEN AND PASSABLE AT ALL TIMES. DURING THE RECONSTRUCTION OF SIDEWALKS, PEDESTRIAN SAFETY AND PROPERTY ACCESS MUST BE MAINTAINED AT ALL TIMES TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR SHALL PLACE ALL UNDERGROUND APPURTENANCES UNDER THE SIDEWALK FIRST.

    AT LOCATIONS WHERE EXISTING SIDEWALK IS CLOSED, THE CONTRACTOR SHALL PLACE A TYPE III BARRICADE WITH MUTCD R9-9 "SIDEWALK CLOSED" SIGN.

22. THE CONTRACTOR SHALL MINIMIZE THE DURATION OF DROP-OFFS ADJACENT TO THE EXISTING TRAVEL LANES. THE CONTRACTOR IS NOT TO EXCAVATE THE SHOULDER AREA UNTIL THEY ARE PREPARED TO COMPLETE, IN A TIMELY MANNER, ALL SUBSEQUENT OPERATIONS TO COMPLETE THE PROPOSED WORK. IN THE EVENT OF CIRCUMSTANCES BEYOND THE CONTRACTOR'S CONTROL, SUCH DROP-OFFS SHALL BE ELIMINATED BY OR AT THE EXPENSE OF THE CONTRACTOR AT THE END OF THE FORTY-EIGHTH HOUR AFTER THE LAST TIME THE WORK FORCE ACTIVELY PURSUED CONSTRUCTION IN THE DROP-OFF AREA. NO DROP-OFF GREATER THAN 6 INCHES IS TO REMAIN OVER A WEEKEND OR HOLIDAY. A DROP-OFF IS CONSIDERED ELIMINATED IF TAPERED AWAY BY A 1 ON 4 SLOPE OR FLATTER.

23. PERMANENT PAVEMENT MARKINGS SHALL BE DONE IMMEDIATELY AFTER TOP COURSE PAVING OPERATIONS ARE COMPLETE.

24. PAVEMENT MARKING LOCATIONS, SIZES AND LENGTHS ON NYS ROADWAYS SHALL BE AS SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER RESPONSIBLE FOR CONSTRUCTION INSPECTION.

25. THE CONTRACTOR MUST ATTEMPT TO REOPEN ALL TRAVEL LANES AND INSTALL THE 'NON-WORKING HOURS' SCHEME FOR OVERNIGHT PERIODS. CERTAIN EXCEPTIONS MAY APPLY FOR WHICH THE 'WORK PERIOD CLOSURE' SCHEME MAY BE LEFT OVERNIGHT. THE CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR THESE OVERNIGHT LANE CLOSURE BY THE ENGINEER RESPONSIBLE FOR CONSTRUCTION INSPECTION.

26. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER RESPONSIBLE FOR CONSTRUCTION INSPECTION, FOR APPROVAL, SHOP DRAWINGS INDICATING PROPOSED METHOD OF REMOVAL OF EXISTING PAVEMENT MARKINGS. ALL METHODS SHALL CONFORM TO THE REQUIREMENTS OF ITEM 635.0103, CLEANING AND PREPARATION OF PAVEMENT SURFACE-LINES.

27. ALL TEMPORARY SIGNS FOR MPT SHALL SHALL CONFORM TO THE REQUIREMENTS OF ITEM 619.02 - CONSTRUCTION SIGNS.

28. THE TRAVEL LANE SHALL BE SWEPT CLEAN BY THE CONTRACTOR BEFORE THE LANE IS REOPENED TO TRAFFIC.

29. THE CONTRACTOR SHALL NOT REMOVE MORE THAN 1500 FEET OF EXISTING PAVEMENT PRIOR TO PLACING NEW PAVEMENT. NEW PAVEMENT AREAS MUST INCLUDE THE BINDER COURSE BEFORE ADDITIONAL PAVEMENT EXCAVATION CAN BEGIN.

30. THE CONTRACTOR SHALL INSTALL TYPE C STEADY BURNING LIGHTS ON EVERY OTHER DRUM FOR OVERNIGHT SHOULDER CLOSURE.

31. THE CONTRACTOR SHALL REFER TO SECTION 6C.08 OF THE MUTCD FOR APPROPRIATE TAPER LENGTHS.

NOTES:

1. WHEN PAVED SHOULDERS HAVING A WIDTH OF 8' OR MORE ARE CLOSED, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK AREA AND DIRECT VEHICULAR TRAFFIC TO REMAIN IN THE TRAVEL WAY.

2. WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE ROADWAY WITHIN A WORK ZONE TRAFFIC CONTROL AREA, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES AND/OR FLAGGERS SHALL BE PLACED AS NEEDED. ADDITIONAL FLAGGERS SHALL BE LOCATED AT ALL INTERSECTIONS AND COMMERCIAL DRIVEWAYS LOCATED WITHIN OR NEAR THE ACTIVE WORK SPACE. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.

3. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.

4. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.

5. TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 1500'.

6. THE END ROAD WORK SIGN (G20-2) SHALL BE PLACED A MAXIMUM OF 500' PAST THE END OF THE WORK SPACE.

7. WHERE DIRECTED BY THE ENGINEER, A BUFFER SPACE SHALL BE PROVIDED IN ORDER TO LOCATE THE ONE-LANE, TWO-WAY TRAFFIC TAPER PRIOR TO ANY HORIZONTAL OR VERTICAL CURVE, IN ORDER TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGERS AND/OR A QUEUE OF STOPPED VEHICLES.

8. THE FLAG TREE SHALL BE LOCATED ON THE SHOULDER, AT APPROXIMATELY THE DISTANCE BETWEEN THE FLAGGER SIGN (W20-7a) AND THE FLAGGER.

9. FLAGGER SIGN (W20-7a) AND ONE LANE ROAD AHEAD SIGN (W20-4) SHALL BE REMOVED, COVERED OR TURNED AWAY FROM ROAD USERS WHEN FLAGGING OPERATIONS ARE NOT OCCURRING.

10. FLAGGER AND FLAG TREE SHALL BE ILLUMINATED TO LEVEL II ILLUMINATION DURING NIGHT TIME OPERATIONS.

11. ALL FLAGGERS SHALL USE 24" (MIN.) OCTAGON SHAPED STOP/SLOW PADDLES HAVING 6' STAFF.

12. CENTERLINE CHANNELIZING DEVICES ARE OPTIONAL AND MAY BE ELIMINATED WHERE SPACE CONSTRAINTS EXIST.

60% DESIGN PLANS

No.	DATE	REVISION	BY:
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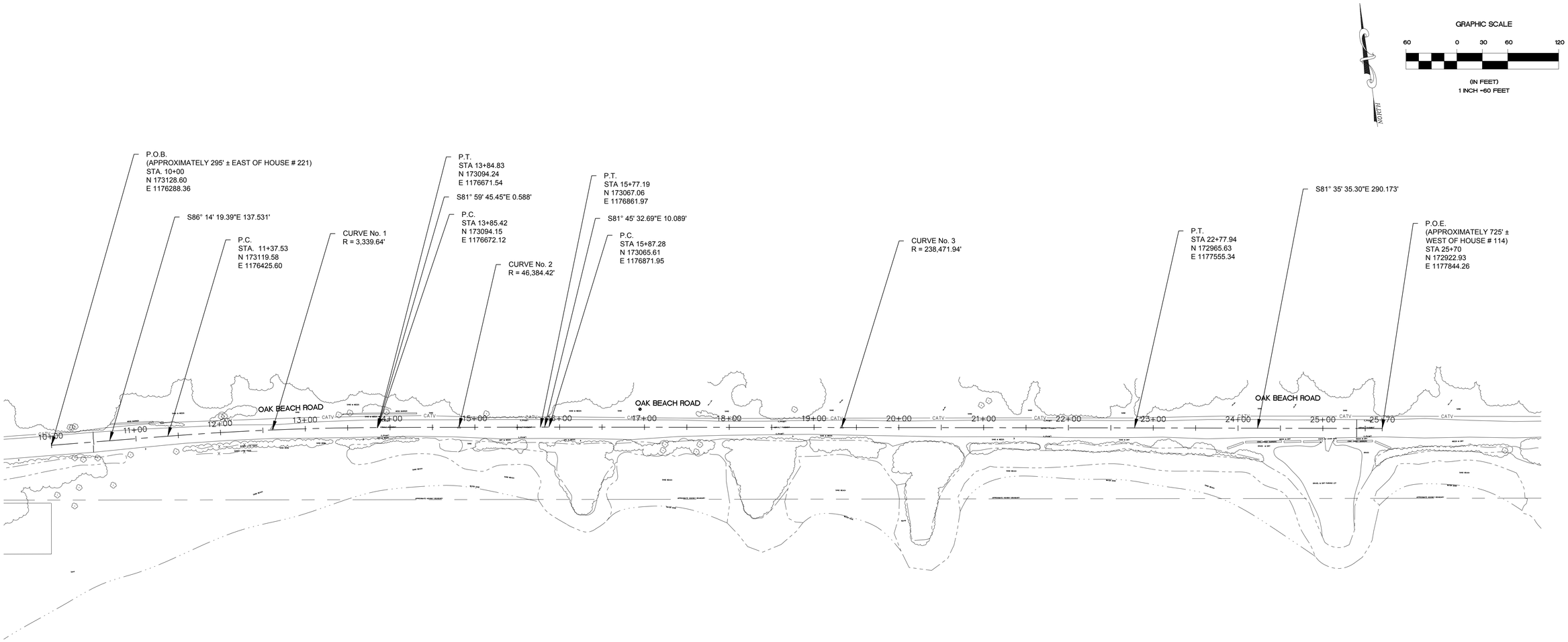
CLIENT:
TOWN OF BABYLON
200 EAST SUNRISE HIGHWAY
LINDENHURST
NEW YORK 11757

DWN. BY:	TK
CHKD BY:	RS
DATE:	JULY 2018
JOB No.:	18110
CADD:	COV.DWG
SCALE:	AS SHOWN

DRAWING TITLE:
WORK ZONE TRAFFIC CONTROL-1
OAK BEACH COMMUNITY SHORELINE
STABILIZATION AND ROADWAY IMPROVEMENTS
BABYLON, NEW YORK

DRAWING NUMBER:
WZTC-1

SHEET: 5 OF 11



CURVE No. 1	
P.C.	STA. 11+37.53
	N 173119.58
	E 1176425.60
P.T.	STA. 13+84.83
	N 256064.1980
	E 1289254.2863
D	01°-42'-56.16"
R	3340.000
Δ	04-14'-34.0794"
L	247.300
T	123.710

CURVE No. 2	
P.C.	STA. 13+85.42
	N 173094.15
	E 1176672.12
P.T.	STA. 15+77.19
	N 256064.1980
	E 1289254.2863
D	00°-07'-24.60"
R	46384.420
Δ	00-14'-12.84"
L	191.770
T	95.880

CURVE No. 3	
P.C.	STA. 15+87.28
	N 173119.58
	E 1176425.60
P.T.	STA. 22+77.94
	N 256064.1980
	E 1289254.2863
D	00°-01'-26.3994"
R	238471.940
Δ	00-09'-57.2394"
L	690.660
T	345.330

60% DESIGN PLANS

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CLIENT:
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200 EAST SUNRISE HIGHWAY
LINDENHURST, NEW YORK 11757

DWN. BY:	TK
CHK'D BY:	RS
DATE:	July 18
JOB No.:	18110
CADD:	18110_CP.DWG
SCALE:	AS SHOWN

DRAWING TITLE:
ALIGNMENT PLAN - 1
OAK BEACH ROAD, OAK BEACH COMMUNITY
BABYLON, NEW YORK

DRAWING NUMBER:
AP-1

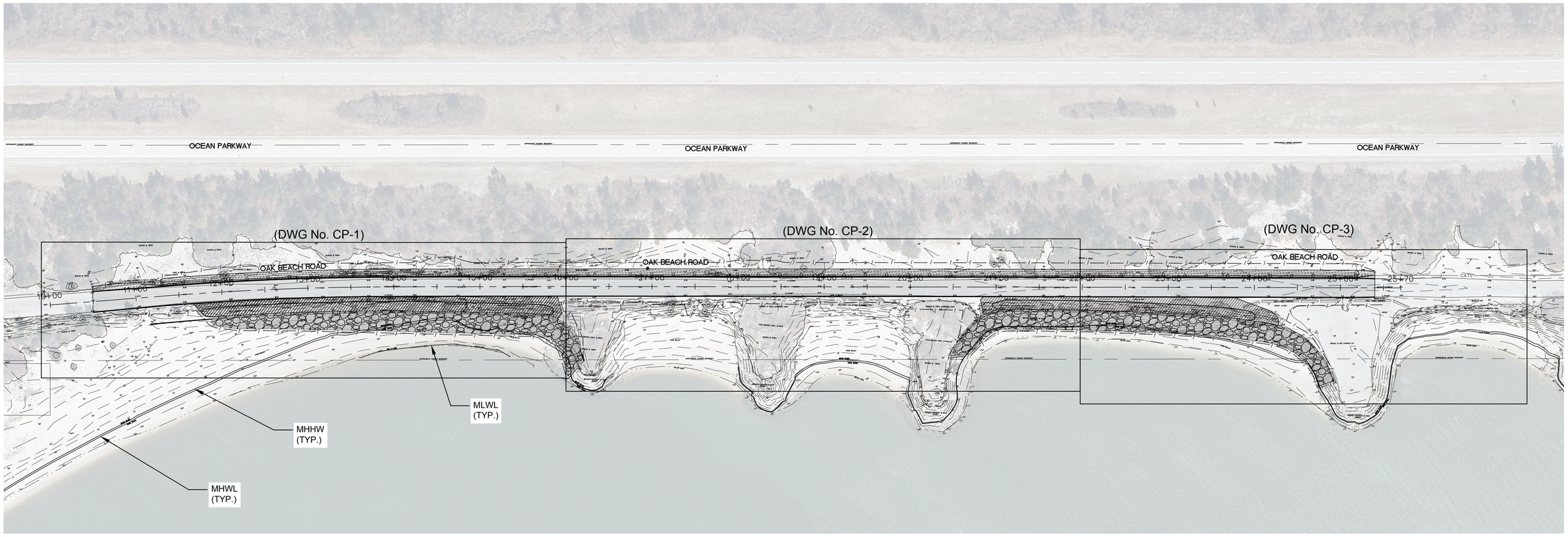
SHEET: 6 OF 11

GRAPHIC SCALE

60 0 30 60 120

(IN FEET)
1 INCH =60 FEET

NORTH



LEGEND:

- STONE REVETMENT
- PLANTED/ STABILIZED BERM
- BIO SWALE AREA
- FULL DEPTH ASPHALT RECONSTRUCTION
- FLUSH CONCRETE CURB
- DECORATIVE TIMBER RAIL

TIDAL DATA

MHHW (MEAN SPRING TIME HIGH WATER LEVEL) (EL 0.99)

MHWL (MEAN HIGH WATER LEVEL) (EL 0.81)

MLWL (MEAN LOW WATER LEVEL) (EL -1.32)

QUANTITIES

EXISTING STONE REVETMENT TO BE REMOVED: ± 1,800 CY
PROPOSED ARMOR STONE: ± 2,200 CY
PROPOSED BEDDING STONE: ± 600 CY
PROPOSED PLACEMENT OF STONE SEAWARD OF MHWL: ± 2,370 SF

EXISTING AREA OF VEGETATION TO BE REMOVED (INCLUDING GROUND COVERS): ± 24,000 SF
EXISTING AREA OF TREES (INCLUDING SHRUBS) TO BE REMOVED: ±14,500 SF

PROPOSED AREA OF ROADWAY PAVEMENT: ± 32,850 SF

PROPOSED CLEAN SAND BACKFILL: ± 450 CY

60% DESIGN PLANS

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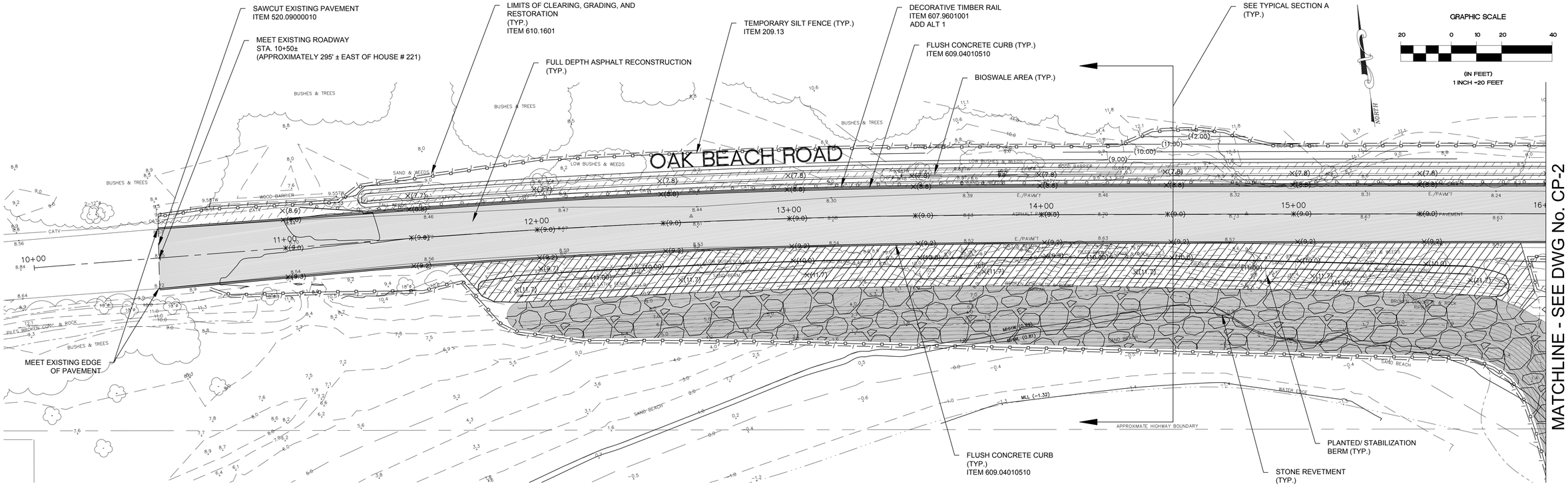
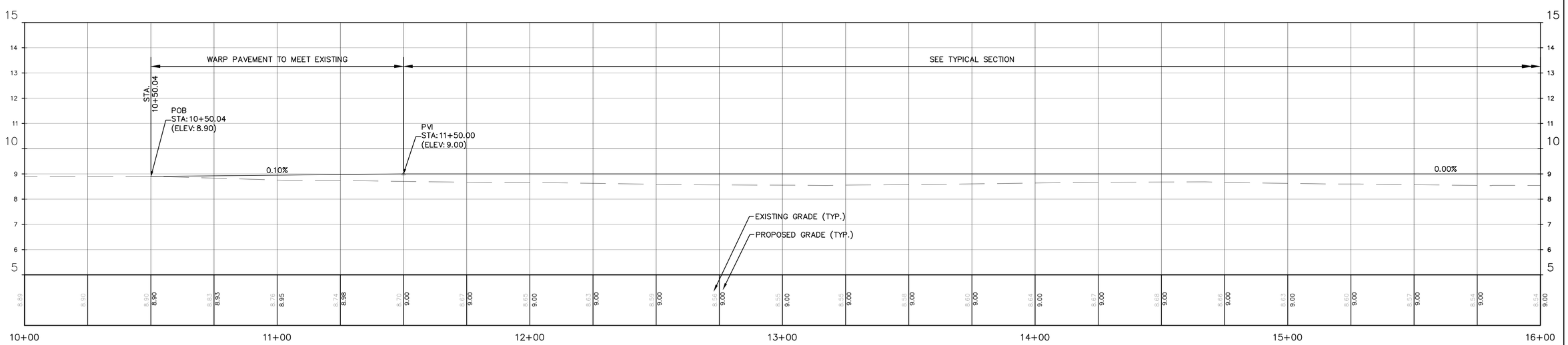
DWN. BY:	TK
CHK'D BY:	RS
DATE:	July 18
JOB No.:	18110
CADD:	18110_CP.DWG
SCALE:	AS SHOWN

DRAWING TITLE:
OVERALL PLAN - 1
OAK BEACH ROAD, OAK BEACH COMMUNITY
BABYLON, NEW YORK

DRAWING NUMBER:
OVR-1

SHEET: 7 OF 11





OAK BEACH ROAD PROFILE

STA.10+00 TO 16+00
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

60% DESIGN PLANS

No.	DATE	REVISION	BY:
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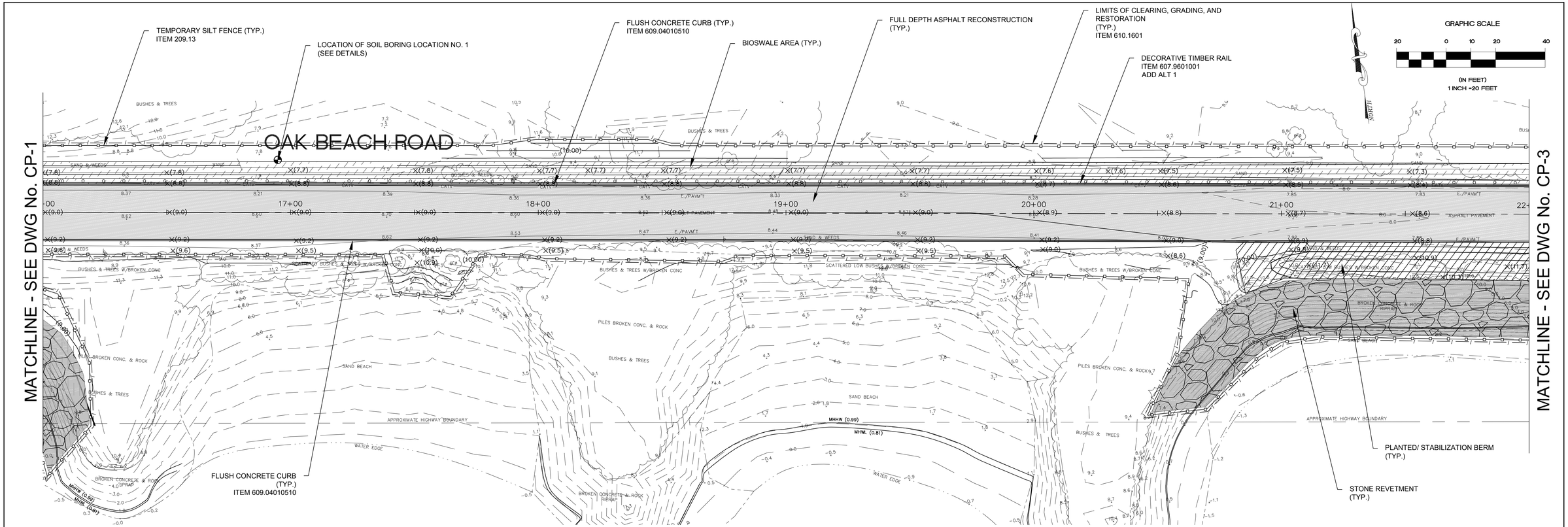
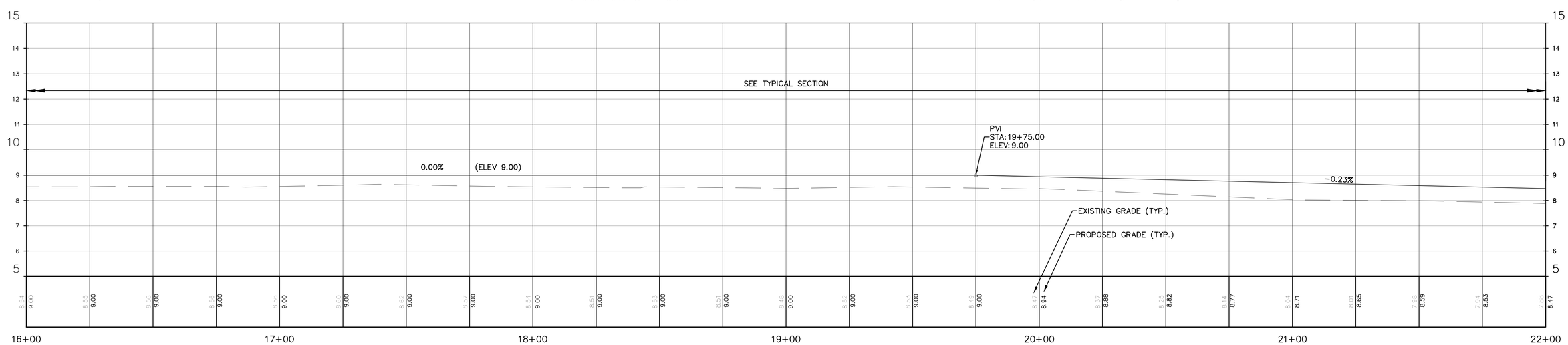
CHK'D BY:	RS
DATE:	July 18
JOB No.:	18110
CADD:	18110_CP.DWG
SCALE:	AS SHOWN

DRAWING TITLE:
CONSTRUCTION PLAN - 1
OAK BEACH ROAD, OAK BEACH COMMUNITY
BABYLON, NEW YORK

DRAWING NUMBER:
CP-1

SHEET: 8 OF 11





OAK BEACH ROAD PROFILE

STA.16+00 TO 22+00
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

60% DESIGN PLANS

No.	DATE	REVISION	BY:
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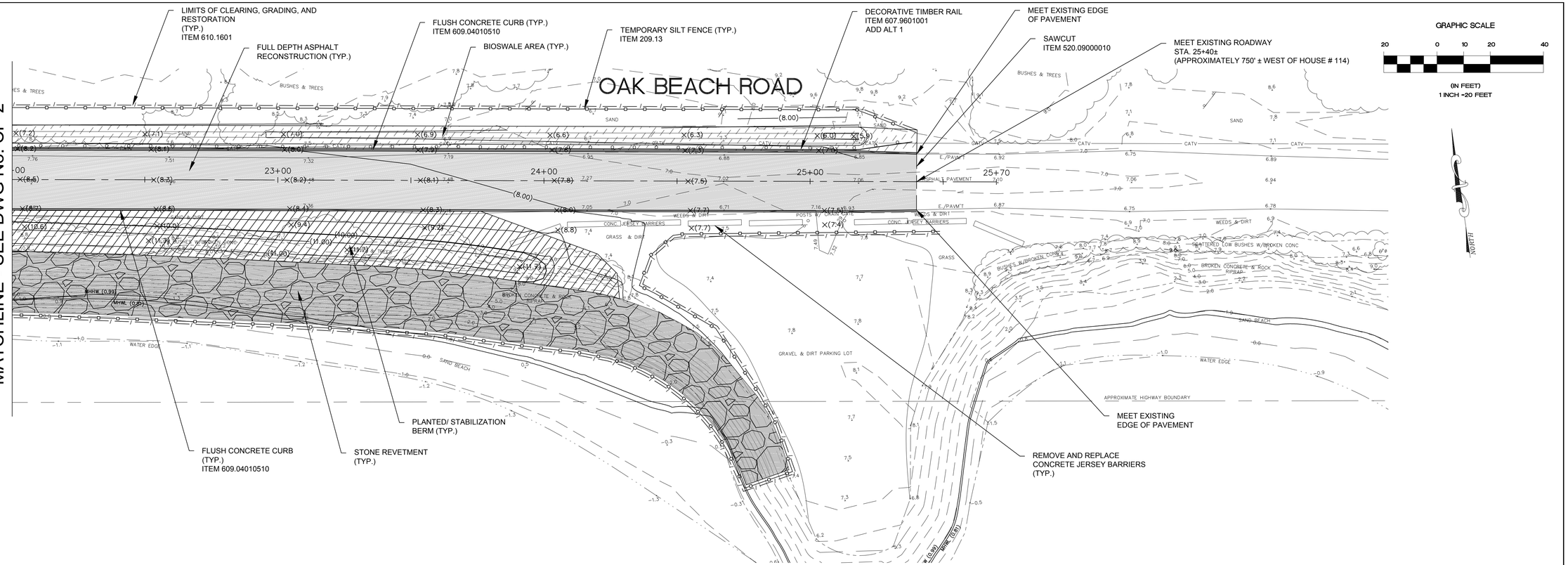
CHK'D BY:	RS
DATE:	July 18
JOB No.:	18110
CADD:	18110_CP.DWG
SCALE:	AS SHOWN

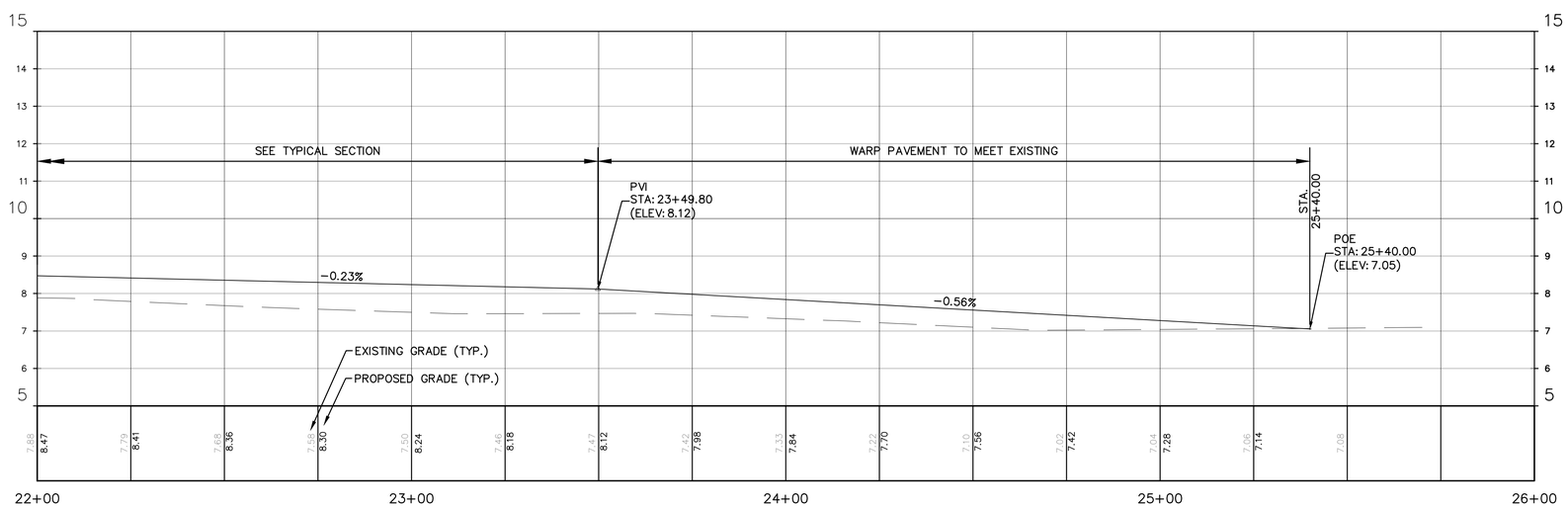
DRAWING TITLE:
CONSTRUCTION PLAN - 2
OAK BEACH ROAD, OAK BEACH COMMUNITY
BABYLON, NEW YORK

DRAWING NUMBER:
CP-2

SHEET: 9 OF 11

MATCHLINE - SEE DWG No. CP-2





OAK BEACH ROAD PROFILE

STA. 22+00 TO 25+70
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

60% DESIGN PLANS

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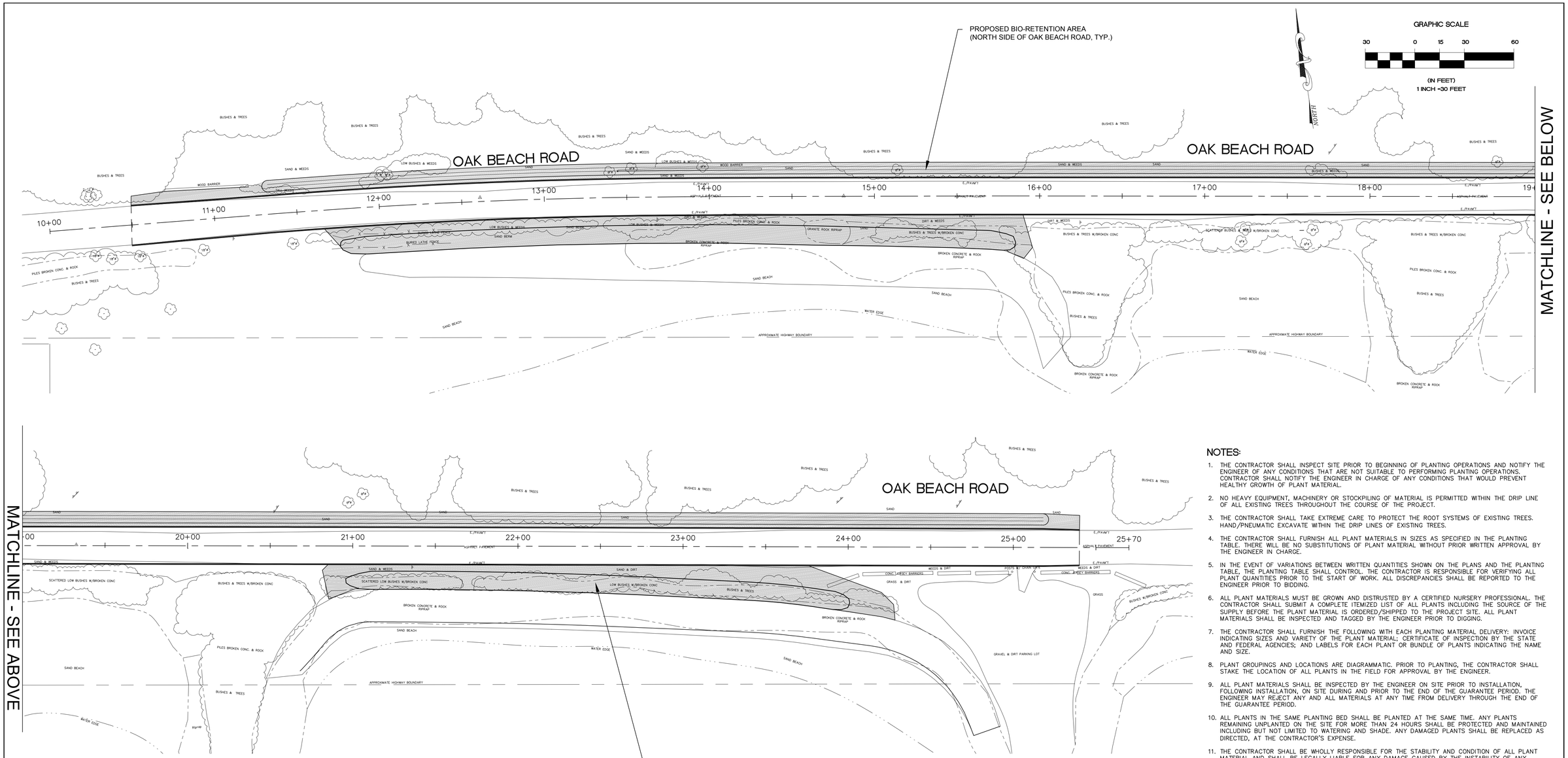
LINDENHURST, NEW YORK 11757

DWN. BY:	TK
CHK'D BY:	RS
DATE:	July 18
JOB No.:	18110
CADD:	18110_CP.DWG
SCALE:	AS SHOWN

DRAWING TITLE:
CONSTRUCTION PLAN - 3
OAK BEACH ROAD, OAK BEACH COMMUNITY
BABYLON, NEW YORK

DRAWING NUMBER:
CP-3

SHEET: 10 OF 11



NOTES:

1. THE CONTRACTOR SHALL INSPECT SITE PRIOR TO BEGINNING OF PLANTING OPERATIONS AND NOTIFY THE ENGINEER OF ANY CONDITIONS THAT ARE NOT SUITABLE TO PERFORMING PLANTING OPERATIONS. CONTRACTOR SHALL NOTIFY THE ENGINEER IN CHARGE OF ANY CONDITIONS THAT WOULD PREVENT HEALTHY GROWTH OF PLANT MATERIAL.
2. NO HEAVY EQUIPMENT, MACHINERY OR STOCKPILING OF MATERIAL IS PERMITTED WITHIN THE DRIP LINE OF ALL EXISTING TREES THROUGHOUT THE COURSE OF THE PROJECT.
3. THE CONTRACTOR SHALL TAKE EXTREME CARE TO PROTECT THE ROOT SYSTEMS OF EXISTING TREES. HAND/PNEUMATIC EXCAVATE WITHIN THE DRIP LINES OF EXISTING TREES.
4. THE CONTRACTOR SHALL FURNISH ALL PLANT MATERIALS IN SIZES AS SPECIFIED IN THE PLANTING TABLE. THERE WILL BE NO SUBSTITUTIONS OF PLANT MATERIAL WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER IN CHARGE.
5. IN THE EVENT OF VARIATIONS BETWEEN WRITTEN QUANTITIES SHOWN ON THE PLANS AND THE PLANTING TABLE, THE PLANTING TABLE SHALL CONTROL. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES PRIOR TO THE START OF WORK. ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO BIDDING.
6. ALL PLANT MATERIALS MUST BE GROWN AND DISTRUSTED BY A CERTIFIED NURSERY PROFESSIONAL. THE CONTRACTOR SHALL SUBMIT A COMPLETE ITEMIZED LIST OF ALL PLANTS INCLUDING THE SOURCE OF THE SUPPLY BEFORE THE PLANT MATERIAL IS ORDERED/SHIPPED TO THE PROJECT SITE. ALL PLANT MATERIALS SHALL BE INSPECTED AND TAGGED BY THE ENGINEER PRIOR TO DIGGING.
7. THE CONTRACTOR SHALL FURNISH THE FOLLOWING WITH EACH PLANTING MATERIAL DELIVERY: INVOICE INDICATING SIZES AND VARIETY OF THE PLANT MATERIAL; CERTIFICATE OF INSPECTION BY THE STATE AND FEDERAL AGENCIES; AND LABELS FOR EACH PLANT OR BUNDLE OF PLANTS INDICATING THE NAME AND SIZE.
8. PLANT GROUPINGS AND LOCATIONS ARE DIAGRAMMATIC. PRIOR TO PLANTING, THE CONTRACTOR SHALL STAKE THE LOCATION OF ALL PLANTS IN THE FIELD FOR APPROVAL BY THE ENGINEER.
9. ALL PLANT MATERIALS SHALL BE INSPECTED BY THE ENGINEER ON SITE PRIOR TO INSTALLATION, FOLLOWING INSTALLATION, ON SITE DURING AND PRIOR TO THE END OF THE GUARANTEE PERIOD. THE ENGINEER MAY REJECT ANY AND ALL MATERIALS AT ANY TIME FROM DELIVERY THROUGH THE END OF THE GUARANTEE PERIOD.
10. ALL PLANTS IN THE SAME PLANTING BED SHALL BE PLANTED AT THE SAME TIME. ANY PLANTS REMAINING UNPLANTED ON THE SITE FOR MORE THAN 24 HOURS SHALL BE PROTECTED AND MAINTAINED INCLUDING BUT NOT LIMITED TO WATERING AND SHADE. ANY DAMAGED PLANTS SHALL BE REPLACED AS DIRECTED, AT THE CONTRACTOR'S EXPENSE.
11. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR THE STABILITY AND CONDITION OF ALL PLANT MATERIAL AND SHALL BE LEGALLY LIABLE FOR ANY DAMAGE CAUSED BY THE INSTABILITY OF ANY PLANT MATERIALS DUE TO THE CONSTRUCTION PROCESS.
12. THE CONTRACTOR IS RESPONSIBLE FOR THE FULL AND COMPLETE RESTORATION OF ALL AREAS WITHIN THE CONTRACT LIMITS AS WELL AS THOSE AREAS JUST OUTSIDE THE LIMITS OF CONSTRUCTION WHICH MAY HAVE BEEN DISTURBED DUE TO THE CONSTRUCTION PROCESSES.
13. FOR SPECIFICATIONS, REFER TO THE ASSOCIATED NYSDOT ITEM NUMBERS INCLUDING BUT NOT LIMITED TO:
    - a.610.0501 – FERTILIZER
    - b.610.1101 – MULCH
    - c.610.1201 – PERMEABLE WEED CONTROL LANDSCAPE FABRIC
    - d.610.1404 – TOPSOIL – SPECIAL PLANTING MIX
    - e.610.19 – WATERING VEGETATION
    - f. 610.21 – MOWING
    - g.611.19 – POST PLANTING CARE

PROPOSED PLANTED BERM AREA
(SOUTH SIDE OF OAK BEACH ROAD, TYP.)

PLANTING SCHEDULE

SYMBOL	QTY.	ABBV.	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	ITEM #
	100	MP	MYRICA PENSYLVANICA	BAYBERRY	#3 CONTAINER	3' O.C.	611.0443
	100	BH	BACCHARIS HELIMIFOLIA	GROUNDSEL BUSH	#3 CONTAINER	3' O.C.	611.0443
	100	IF	IVA FRUTESCENS	MARSH ELDERBERRY	#3 CONTAINER	3' O.C.	611.0443
	100	RV	ROSA VIRGINIANA	VIRGINIA ROSE	#3 CONTAINER	3' O.C.	611.0443
	100	SS	SOLIDAGO SEMPERVIRENS	SEASIDE GOLDENROD	#3 CONTAINER	3' O.C.	611.0443
	100	PM	PRUNUS MARITIMA	BEACH PLUM SHRUB	#3 CONTAINER	3' O.C.	611.0443
	21,500	AB	AMMOPHILA BREVILIGULATA	BEACH GRASS	PLUG TO #1 CONTAINER	1' O.C.	611.0611

W.I.P.

60% DESIGN PLANS

No.	DATE	REVISION	BY:
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CLIENT:
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200 EAST SUNRISE HIGHWAY
LINDENHURST, NEW YORK 11757

DWN. BY:	TK
CHK'D BY:	RS
DATE:	July 18
JOB No.:	18110
CADD:	18110_CP.DWG
SCALE:	AS SHOWN

DRAWING TITLE:
LANDSCAPE PLAN - 1
OAK BEACH ROAD, OAK BEACH COMMUNITY
BABYLON, NEW YORK

DRAWING NUMBER:
LP-1

SHEET: 11 OF 11

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Fish and Wildlife, New York Natural Heritage Program
625 Broadway, Fifth Floor, Albany, NY 12233-4757
P: (518) 402-8935 | F: (518) 402-8925
www.dec.ny.gov

August 13, 2018

Alicia Shultz
Governor's Office of Storm Recovery
38-40 State Street
Albany, NY 12207

Re: Shoreline Stabilization and Road Improvements – Oak Beach
County: Suffolk Town/City: Babylon

Dear Ms. Shultz:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to the above project.

Enclosed is a report of rare or state-listed animals and plants, and significant natural communities that our database indicates occur at or in the vicinity of the project site.

For most sites, comprehensive field surveys have not been conducted; the enclosed report only includes records from our database. We cannot provide a definitive statement as to the presence or absence of all rare or state-listed species or significant natural communities. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological resources.

Our database is continually growing as records are added and updated. If this proposed project is still under development one year from now, we recommend that you contact us again so that we may update this response with the most current information.

The presence of the plants and animals identified in the enclosed report may result in this project requiring additional review or permit conditions. For further guidance, and for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the NYS DEC Region 1 Office, Division of Environmental Permits, at dep.r1@dec.ny.gov.

Sincerely,

Nicholas Conrad
Information Resources Coordinator
New York Natural Heritage Program

922

The following state-listed animals have been documented in the vicinity of the project site.

The following list includes animals that are listed by NYS as Endangered, Threatened, or Special Concern; and/or that are federally listed or are candidates for federal listing.

For information about any permit considerations for the project, contact the NYSDEC Region 1 Office, Division of Environmental Permits, at dep.r1@dec.ny.gov.

A listing of Regional Offices is at http://www.dec.ny.gov/about/558.html.

The following species have been documented within .25 mile of the project site.

COMMON NAME	*SCIENTIFIC NAME*	*NY STATE LISTING*	*FEDERAL LISTING*	
Birds				
Piping Plover *Breeding*	*Charadrius melodus*	Endangered	Threatened	8534
Short-eared Owl *Breeding*	*Asio flammeus*	Endangered		2752
Black Rail *Breeding*	*Laterallus jamaicensis*	Endangered		3851
Least Tern *Breeding*	*Sternula antillarum*	Threatened		6045
Northern Harrier *Breeding*	*Circus cyaneus*	Threatened		532

This report only includes records from the NY Natural Heritage database.

If any rare plants or animals are documented during site visits, we request that information on the observations be provided to the New York Natural Heritage Program so that we may update our database.

Information about many of the listed animals in New York, including habitat, biology, identification, conservation, and management, are available online in Natural Heritage's Conservation Guides at www.guides.nynhp.org, and from NYSDEC at www.dec.ny.gov/animals/7494.html.

The following rare plants, rare animals, and significant natural communities have been documented at the project site, or in its vicinity.

We recommend that potential impacts of the proposed project on these species or communities be addressed as part of any environmental assessment or review conducted as part of the planning, permitting and approval process, such as reviews conducted under SEQR. Field surveys of the project site may be necessary to determine the status of a species at the site, particularly for sites that are currently undeveloped and may still contain suitable habitat. Final requirements of the project to avoid, minimize, or mitigate potential impacts are determined by the lead permitting agency or the government body approving the project.

The following animals, while not listed by New York State as Endangered or Threatened, are rare in New York State and are of conservation concern.

COMMON NAME	*SCIENTIFIC NAME*	*NY STATE LISTING*	*HERITAGE CONSERVATION STATUS*
Birds			
Seaside Sparrow	*Ammodramus maritimus*	Special Concern	Imperiled in NYS

Breeding

Gilgo Backbarrier Marsh, including north of Oak Beach across Ocean Parkway, 2001-06-24: An extensive tidal salt marsh on the bay side of a narrow barrier beach. Vegetation includes *Spartina* and *Phragmites*. 8087

Chuck-will's-widow	*Antrostomus carolinensis*	Protected Bird	Critically Imperiled in NYS

Breeding

Jones Beach Island East, including north and south of Ocean Parkway and the west end of Oak Beach Road, 2005-07-01: Nesting occurs in maritime dune and shrubland habitats with a thin ground cover of low poison ivy (*Toxicondendron radicans*) seedlings in the shade of a Japanese black pine (*Pinus thunbergiana*). The vegetation in the foraging area included bayberry (*Myrica* sp.) and shrubby thickets of greenbrier (*Smilax rotundifolia*) and poison ivy with open areas that are covered with beach heather. 4941

Gull Colony

Jones Beach Island East, including Gilgo State Park at the west end of Oak Beach Road, 1993-06-13: The habitat consists of maritime dunes. 4611

The following plants are listed as Endangered or Threatened by New York State, and/or are rare in New York, and so are a vulnerable natural resource of conservation concern.

COMMON NAME	*SCIENTIFIC NAME*	*NY STATE LISTING*	*HERITAGE CONSERVATION STATUS*
Annual Saltmarsh Aster	*Symphyotrichum subulatum* var. *subulatum*	Threatened	Imperiled in NYS

Jones Beach Island East, including Gilgo State Park at the west end of Oak Beach Road, 2001-09-26: Brackish interdunal swales. 2850

Seaside Bulrush	*Bolboschoenus maritimus*	Threatened	Imperiled in NYS

Jones Beach Island East, including Gilgo State Park at the west end of Oak Beach Road, 1992-10-28: Brackish interdunal swales. 9510

Oakes' Evening Primrose	*Oenothera oakesiana*	Threatened	Imperiled in NYS

Jones Beach Island East, including Gilgo State Park at the west end of Oak Beach Road, 2011-09-22: Low dunes along the edge of a sand road. The road is bordered by brackish marshes. 13764

COMMON NAME	SCIENTIFIC NAME	NY STATE LISTING	HERITAGE CONSERVATION STATUS

Plants (cont.)

Seabeach Knotweed	*Polygonum glaucum*	Rare	Vulnerable in NYS and Globally Uncommon

Jones Beach Island East, including beaches to southwest of Oak Beach, 2003-08: Maritime beach and dunes on the ocean side of a barrier island. 5949

The following natural communities are considered significant from a statewide perspective by the NY Natural Heritage Program. Each community is either an example of a community type that is rare in the state, or a high-quality example of a more common community type. By meeting specific, documented criteria, the NY Natural Heritage Program considers these community occurrences to have high ecological and conservation value.

COMMON NAME	HERITAGE CONSERVATION STATUS

Wetland/Aquatic Communities

Marine Eelgrass Meadow — High Quality Occurrence of Rare Community Type

Great South Bay West, i**ncluding shore of Oak Beach and at project site**: This is a large patch of eelgrass in good condition. 15044

Marine Back-barrier Lagoon — High Quality Occurrence of Rare Community Type

Great South Bay, including shore of Oak Beach east of project site, and north of Oak Beach across Ocean Parkway: This is a very large marine back-barrier lagoon that is in good condition within a fair quality. 15454

Brackish Interdunal Swales — High Quality Occurrence of Rare Community Type

Jones Beach Island East:, including Gilgo State Park near the west end of Oak Beach Road: This is a large, moderately protected, diverse swale complex in an intact dune system. 4959

High Salt Marsh — High Quality Occurrence of Uncommon Community Type

Gilgo Backbarrier Marsh, including north of Oak Beach across Ocean Parkway: This is a large high salt marsh (about 1113 acres) in a 1430-acre salt marsh complex formed primarily on backbarrier fringe marshes of the western Great South Bay. The high salt marsh is diverse and covers a large percentage of the salt marsh complex. 10370

Salt Panne — High Quality Occurrence of Uncommon Community Type

Gilgo Backbarrier Marsh, including north of Oak Beach across Ocean Parkway: This is a large (about 297 acres) community in a 1430-acre salt marsh complex formed primarily on backbarrier fringe marshes of the western Great South Bay. The salt pannes are large (3-4 acres), diverse, and cover a large percentage (20-25%) of the marsh surface. 5917

COMMON NAME	*HERITAGE CONSERVATION STATUS*	
Upland/Terrestrial Communities		
Maritime Beach	High Quality Occurrence of Uncommon Community Type	
Jones Beach Island, including beach just west of project site: This is a 16-mile long maritime beach adjacent to a large dune system along the south shore of Jones Beach Island.		629
Maritime Dunes	High Quality Occurrence of Uncommon Community Type	
Jones Beach Island, including beach just west of project site: This is an extensive maritime dune system with good diversity of native species, fairly intact ecological processes, and connection to other natural communities.		1915
Maritime Shrubland	High Quality Occurrence	
Jones Beach Island East, including north and south of Ocean Parkway and along Oak Beach Road just to west of project site: This is a large maritime shrubland with good diversity and processes fairly intact.		9331

This report only includes records from the NY Natural Heritage database. For most sites, comprehensive field surveys have not been conducted, and we cannot provide a definitive statement as to the presence or absence of all rare or state-listed species. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological resources.

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Information about many of the natural community types in New York, including identification, dominant and characteristic vegetation, distribution, conservation, and management, is available online in Natural Heritage's Conservation Guides at www.guides.nynhp.org. For descriptions of all community types, go to www.dec.ny.gov/animals/97703.html for Ecological Communities of New York State.

Governor's Office of
Storm Recovery

ANDREW M. CUOMO
Governor

August 1, 2018

Re: Natural Heritage Compliance Process Request for Shoreline Stabilization and Road Improvements – Oak Beach, Oak Beach, Suffolk County, New York

The Governor's Office of Storm Recovery (GOSR), acting under the auspices of New York State Homes and Community Renewal's (HCR) Housing Trust Fund Corporation (HTFC), on behalf of the Department of Housing & Urban Development (HUD), are currently preparing an Environmental Review for the Shoreline Stabilization and Road Improvements – Oak Beach, Oak Beach, Suffolk County, New York (see attached). GOSR is acting as HUD's non-federal representative for the purposes of conducting consultation pursuant to Section 7 of the Endangered Species Act.

GOSR is contacting your office for assistance in identifying the potential presence of any rare or Federal and/or State threatened, endangered, proposed or candidate species in the vicinity of the proposed projects. In addition, information regarding the presence of any other species or habitats of special concern in the vicinity of the proposed projects is also requested. The purpose of this letter is to provide the New York State Department of Environmental Conservation (NYSDEC) Natural Heritage Program (NYNHP) notice of the proposed project and determine the presence of any State or Federal endangered, threatened, or rare species or significant natural communities.

Project Description

The project activities include improvements to Oak Beach Road and associated shoreline. Oak Beach Road asphalt will be reconstructed to raise the elevation of the road along approximately 505 feet of Oak Beach Road with clearing and grading from the roads northern curb 20 feet to the north. Within this 20-foot-wide strip of cleared land, a bioswale will be constructed. On the south side of the road at two sections of the road, an eastern and western section, a planted berm with soil be constructed for stabilization and connected to a stone revetment (geotextile fabric and armor stone) which will be anchored into a vegetated low sill bulkhead up to the mean high-water line. The two sections are approximately 40 feet in length.

The purpose of this project is to reduce shoreline erosion and flood risk to residences and related infrastructure along Oak Beach Road in the community. The project will reduce storm damage from storm surge for residences and the infrastructure on which they rely, including Oak Beach Road, water systems, and public facilities.

Oak Beach Road is a single-entry road which becomes impassable during flood events due to its proximity to the inadequately protected shoreline. During Superstorm Sandy, part of the western edge of the road collapsed due to the destabilization of the shoreline and subsurface material. Jetties need to be reinforced and upgraded to prevent future inundation of the road. Oak Beach is the only evacuation route for some residents.

Project Purpose and Need

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Compliance

According to information reviewed from the New York State Environmental Resource Mapper, significant natural communities and rare plants or animals are shown to be at or near the site. These layers are generalized areas and no detailed information is provided by the NYS Environmental Resource Mapper database on what and how these determinations were made. The purpose of this letter is to confirm that there are no significant communities or rare plants and animals in the project area. Considering the nature of the proposed construction and the limits of the construction to existing developed areas, the potential impact to any existing natural communities and rare plants or animals should be minimal.

Your assistance with this matter is greatly appreciated. We respectfully request your cooperation and are seeking a response within 30 days of receipt of this letter. If you have questions or require additional information regarding this request, please contact me at (518) 474-0647 or Alicia.Shultz@nyshcr.org. Thank you for your time and consideration.

Sincerely,

Alicia Shultz
Senior Environmental Scientist
Bureau of Environmental Review and Assessment

Attachments: Site Maps
NYS Environmental Resource Mapper

West Gilgo to Captree NY Rising Community Reconstruction Plan
Figure 1: NYRCR Planning Area Location

West Islip
Village of Lindenhurst
Village of Babylon/West Babylon
Village of Amityville/Copiague
110
27
27A
Merrick Rd
Robert Moses Cswy
Oyster Bay (Nassau County)
Babylon (Suffolk County)
Oak Island
Oak Beach
Captree Island
Oak Island Beach Association
Ocean Pkwy
Gilgo
West Gilgo
Robert Moses State Pkwy
Babylon
Islip

West Gilgo to Captree NYRCR Planning Area
Other NYRCR Planning Areas
Municipal Boundary
Interstate
Highways
Streets
Long Island Railroad & Station
Ferry

0 1.5 3 Miles

Source: NYS DOT, NYS DOS, MTA

Environmental Resource Mapper

Base Map: Topographical ▼ Using this map

Search

Tools

Layers and Legend

All Layers

- Unique Geological Features
- Waterbody Classifications for Rivers/Streams
- Waterbody Classifications for Lakes
- State Regulated Freshwater Wetlands
  - State Regulated Wetland Checkzone
- Significant Natural Communities
  - Natural Communities Near This Location
- Rare Plants or Animals

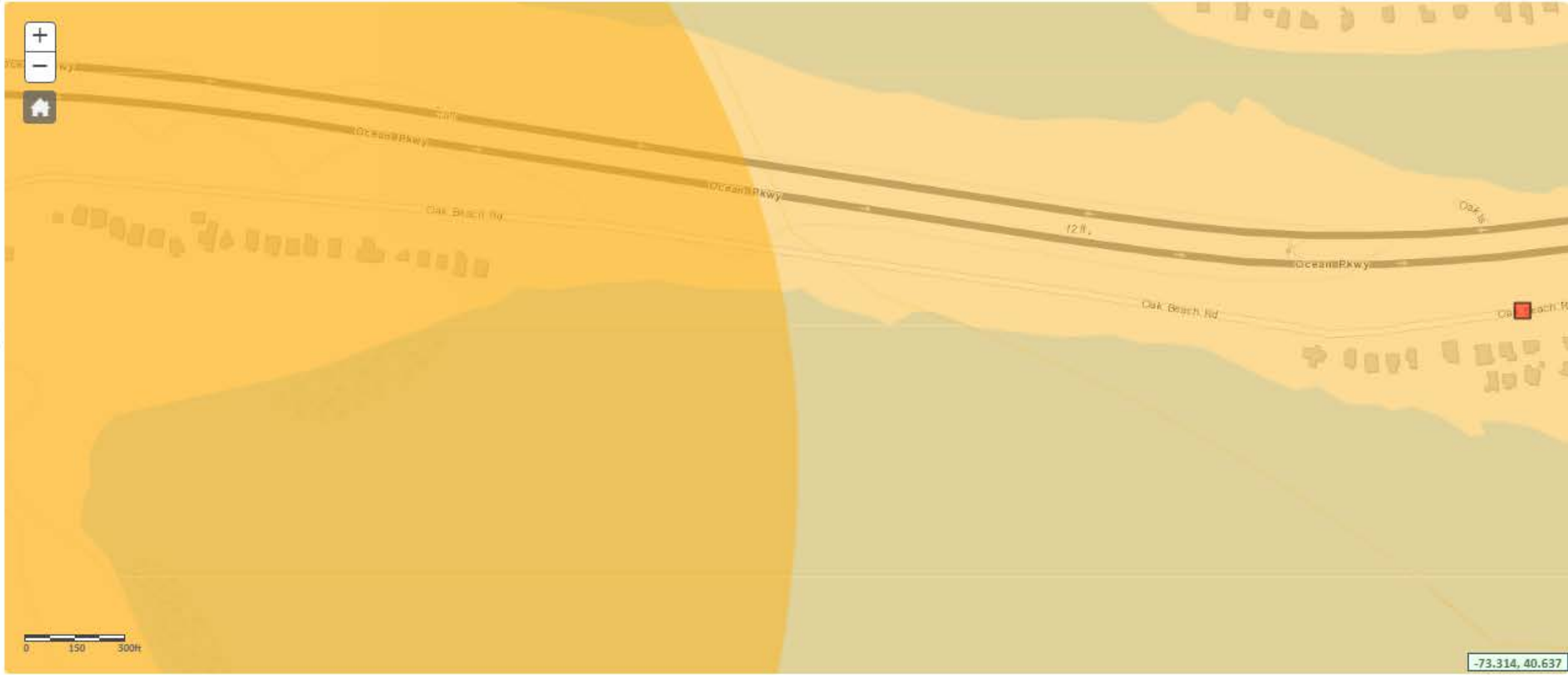
Other Wetland Layers

Reference Layers

Tell Me More...

Need A Permit?

Contacts



Environmental Resource Mapper

Base Map: Topographical ▼ Using this map

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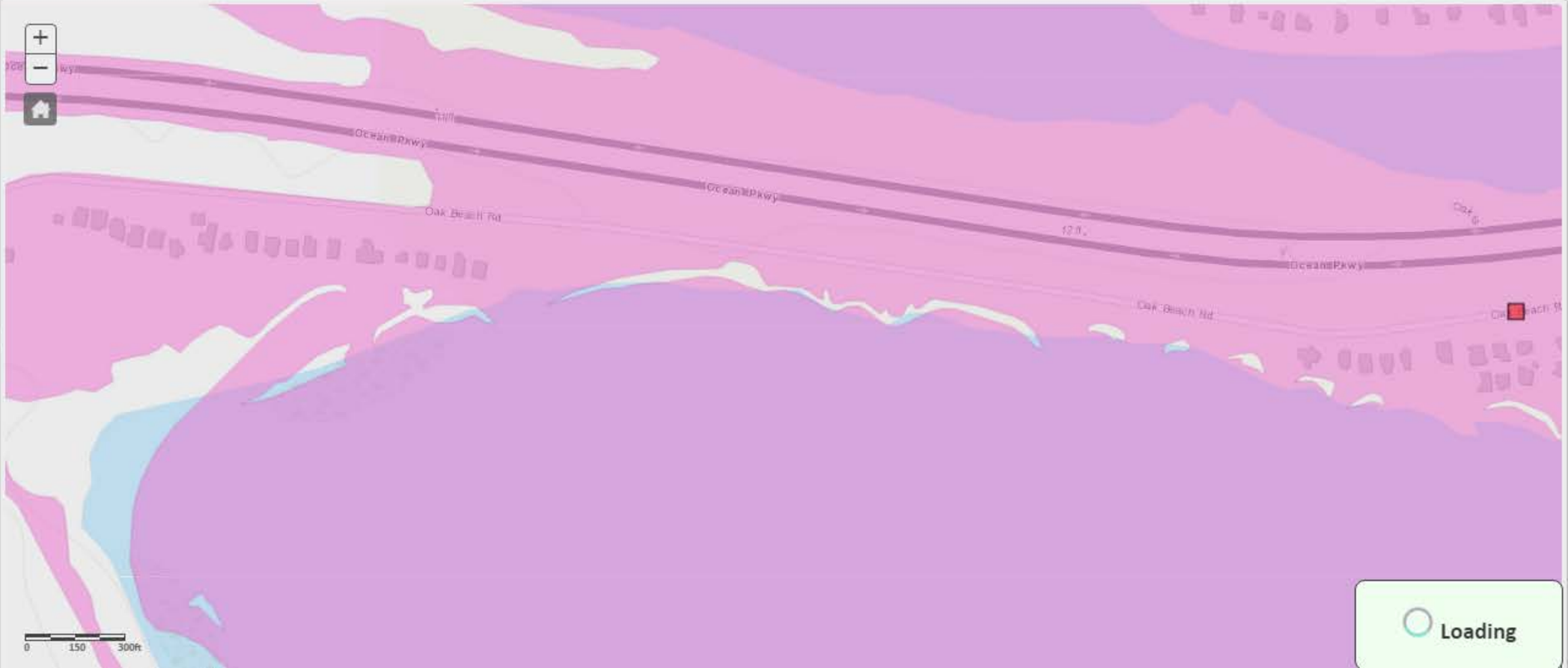

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Fish and Wildlife
625 Broadway, 5th Floor, Albany, NY 12233-4750
P: (518) 402-8924 | F: (518) 402-8925
www.dec.ny.gov

August 2, 2018

Ms. Alicia Shultz
Governor's Office of Storm Recovery
30-40 State St., Hampton Plaza
Albany, NY 12207

RE: Shoreline Stabilizations and Road Improvements – Oak Beach, Oak Beach, Suffolk County, New York

Dear Ms. Shultz,

We received your jurisdictional inquiry request for the project including improvements to Oak Beach Road and associated shoreline in Oak Beach, Suffolk County. It is our understanding that Oak Beach Road will be raised and reconstructed, and a bioswale will be built. Based on our understanding of the project, and the NYS Resources map created by Amanda Bailey on 7/31/2018 (attached), we have the following comments on the project:

STATE-LISTED SPECIES

All threatened or endangered species are subject to regulation under Article 11, Title 5 of the Environmental Conservation Law and a permit is required for a taking of that species pursuant to 6 NYCRR Part 182. Besides death of individuals, taking includes harassment, interference with essential behaviors, and adverse modification of habitat. **If the site is in close proximity to known occurrences of state-protected species, additional information on the proposal will be required by the appropriate regional office for a determination on the need for an incidental take permit.**

We have reviewed the available information in the New York Natural Heritage Program database on known occurrences of rare or state-listed bat species. This project area does not occur in the immediate vicinity of known occurrences of rare or state-listed bat species (see NYS Resources map, attached). The major concern for bat species in relation to this project would be the destruction of potential roosts and roosting habitat that may occur if tree clearing is required. Because this project does not take place within known occupied habitat, there are no restrictions on cutting.

The absence of data does not necessarily mean that any rare or state-listed bat species do not exist on or adjacent to the proposed site. For most sites, comprehensive field surveys have not been conducted. We cannot provide a definitive statement on the presence of all rare or state-listed bat species. To avoid potential take, DEC *recommends* that any tree clearing be conducted between November 1 and March 31, when bats are inactive in hibernation sites. DEC also recommends that all snag and cavity trees remain uncut, unless their removal is necessary for protection of human life and property. For more information, please refer to the DEC Northern long-eared bat protective measures guidance, available at: http://www.dec.ny.gov/animals/106090.html.

This document is only intended to address state-listed bat species. Other rare or state-listed species, natural communities or other significant habitats may exist within the project area and would require additional review. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological resources.

OTHER

USFWS Long Island Field Office

If a federal agency is involved in the project, or if federal funding is used, there are additional considerations for federally listed species. Section 7(a)(1) of the Endangered Species Act requires federal agencies to use their authorities to conserve listed species. Section 7(a)(2) requires federal agencies to consult on any action that may affect a listed species.

Other permits from this Department or other agencies may be required for projects conducted on this property now or in the future. Also, regulations applicable to the location subject to this determination occasionally are revised and you should, therefore, verify the need for permits if your project is delayed or postponed. This determination regarding the need for permits will remain effective for a maximum of one year unless you are otherwise notified. Applications may be downloaded from our website at www.dec.ny.gov under “Programs” then “Division of Environmental Permits.”

Please contact this office if you have questions regarding the above information. Thank you.

Sincerely,

Amanda Bailey

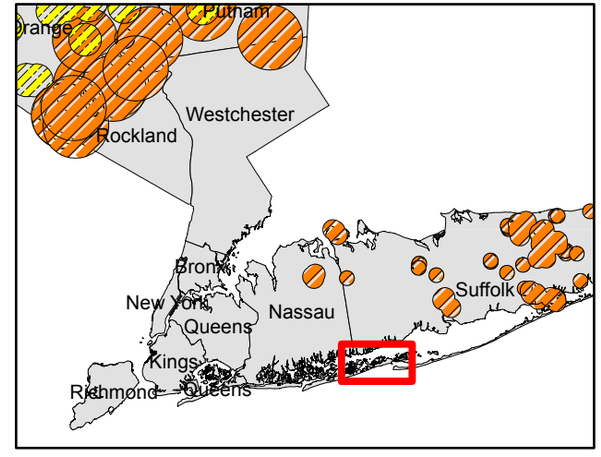
Amanda Bailey
Division of Fish and Wildlife
Amanda.bailey@dec.ny.gov
518-402-8859

Cc: Lori Shirley, Governor’s Office of Storm Recovery
May O’Malley, NYSDEC Division of Environmental Permits

NYS Resources Map

Shoreline Stabilization & Road Improvements Oak Beach, Suffolk County

Prepared by AMB on 8/2/2018



Project Area

Indiana Bat

Northern Long-eared Bat

Disclaimer: this map was prepared by the NYSDEC using the most current data available. It is deemed accurate but is not guaranteed. NYSDEC is not responsible for any inaccuracies in the data and does not necessarily endorse any interpretations or products derived from the data. This map may contain information that is considered sensitive and therefore the distribution of this map is strictly prohibited.

NEW YORK STATE OF OPPORTUNITY

Department of Environmental Conservation

0 0.5 1 2 3 4 Miles

1 inch = 9,450 feet

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Environmental Resource Mapper

Base Map: Topographical ▼ Using this map

Search

Tools

Layers and Legend

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  - State Regulated Wetland Checkzone
- Significant Natural Communities
  - Natural Communities Near This Location
- Rare Plants or Animals

Other Wetland Layers

Reference Layers

Tell Me More...

Need A Permit?

Contacts

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Fish and Wildlife, New York Natural Heritage Program
625 Broadway, Fifth Floor, Albany, NY 12233-4757
P: (518) 402-8935 | F: (518) 402-8925
www.dec.ny.gov

August 13, 2018

Alicia Shultz
Governor's Office of Storm Recovery
38-40 State Street
Albany, NY 12207

Re: Shoreline Stabilization and Road Improvements – Oak Beach
County: Suffolk Town/City: Babylon

Dear Ms. Shultz:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to the above project.

Enclosed is a report of rare or state-listed animals and plants, and significant natural communities that our database indicates occur at or in the vicinity of the project site.

For most sites, comprehensive field surveys have not been conducted; the enclosed report only includes records from our database. We cannot provide a definitive statement as to the presence or absence of all rare or state-listed species or significant natural communities. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological resources.

Our database is continually growing as records are added and updated. If this proposed project is still under development one year from now, we recommend that you contact us again so that we may update this response with the most current information.

The presence of the plants and animals identified in the enclosed report may result in this project requiring additional review or permit conditions. For further guidance, and for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the NYS DEC Region 1 Office, Division of Environmental Permits, at dep.r1@dec.ny.gov.

Sincerely,

Nicholas Conrad
Information Resources Coordinator
New York Natural Heritage Program

922

The following state-listed animals have been documented in the vicinity of the project site.

The following list includes animals that are listed by NYS as Endangered, Threatened, or Special Concern; and/or that are federally listed or are candidates for federal listing.

For information about any permit considerations for the project, contact the NYSDEC Region 1 Office, Division of Environmental Permits, at dep.r1@dec.ny.gov.

A listing of Regional Offices is at http://www.dec.ny.gov/about/558.html.

The following species have been documented within .25 mile of the project site.

COMMON NAME	*SCIENTIFIC NAME*	*NY STATE LISTING*	*FEDERAL LISTING*	
Birds				
Piping Plover *Breeding*	*Charadrius melodus*	Endangered	Threatened	8534
Short-eared Owl *Breeding*	*Asio flammeus*	Endangered		2752
Black Rail *Breeding*	*Laterallus jamaicensis*	Endangered		3851
Least Tern *Breeding*	*Sternula antillarum*	Threatened		6045
Northern Harrier *Breeding*	*Circus cyaneus*	Threatened		532

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The following rare plants, rare animals, and significant natural communities have been documented at the project site, or in its vicinity.

We recommend that potential impacts of the proposed project on these species or communities be addressed as part of any environmental assessment or review conducted as part of the planning, permitting and approval process, such as reviews conducted under SEQR. Field surveys of the project site may be necessary to determine the status of a species at the site, particularly for sites that are currently undeveloped and may still contain suitable habitat. Final requirements of the project to avoid, minimize, or mitigate potential impacts are determined by the lead permitting agency or the government body approving the project.

The following animals, while not listed by New York State as Endangered or Threatened, are rare in New York State and are of conservation concern.

COMMON NAME	*SCIENTIFIC NAME*	*NY STATE LISTING*	*HERITAGE CONSERVATION STATUS*
Birds			
Seaside Sparrow	*Ammodramus maritimus*	Special Concern	Imperiled in NYS

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The following plants are listed as Endangered or Threatened by New York State, and/or are rare in New York, and so are a vulnerable natural resource of conservation concern.

COMMON NAME	*SCIENTIFIC NAME*	*NY STATE LISTING*	*HERITAGE CONSERVATION STATUS*
Annual Saltmarsh Aster	*Symphyotrichum subulatum* var. *subulatum*	Threatened	Imperiled in NYS

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COMMON NAME	SCIENTIFIC NAME	NY STATE LISTING	HERITAGE CONSERVATION STATUS

Plants (cont.)

Seabeach Knotweed	*Polygonum glaucum*	Rare	Vulnerable in NYS and Globally Uncommon

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COMMON NAME	*HERITAGE CONSERVATION STATUS*	
Upland/Terrestrial Communities		
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Jones Beach Island, including beach just west of project site: This is a 16-mile long maritime beach adjacent to a large dune system along the south shore of Jones Beach Island.		629
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Jones Beach Island, including beach just west of project site: This is an extensive maritime dune system with good diversity of native species, fairly intact ecological processes, and connection to other natural communities.		1915
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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Fish and Wildlife
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August 2, 2018

Ms. Alicia Shultz
Governor's Office of Storm Recovery
30-40 State St., Hampton Plaza
Albany, NY 12207

RE: Shoreline Stabilizations and Road Improvements – Oak Beach, Oak Beach, Suffolk County, New York

Dear Ms. Shultz,

We received your jurisdictional inquiry request for the project including improvements to Oak Beach Road and associated shoreline in Oak Beach, Suffolk County. It is our understanding that Oak Beach Road will be raised and reconstructed, and a bioswale will be built. Based on our understanding of the project, and the NYS Resources map created by Amanda Bailey on 7/31/2018 (attached), we have the following comments on the project:

STATE-LISTED SPECIES

All threatened or endangered species are subject to regulation under Article 11, Title 5 of the Environmental Conservation Law and a permit is required for a taking of that species pursuant to 6 NYCRR Part 182. Besides death of individuals, taking includes harassment, interference with essential behaviors, and adverse modification of habitat. **If the site is in close proximity to known occurrences of state-protected species, additional information on the proposal will be required by the appropriate regional office for a determination on the need for an incidental take permit.**

We have reviewed the available information in the New York Natural Heritage Program database on known occurrences of rare or state-listed bat species. This project area does not occur in the immediate vicinity of known occurrences of rare or state-listed bat species (see NYS Resources map, attached). The major concern for bat species in relation to this project would be the destruction of potential roosts and roosting habitat that may occur if tree clearing is required. Because this project does not take place within known occupied habitat, there are no restrictions on cutting.

The absence of data does not necessarily mean that any rare or state-listed bat species do not exist on or adjacent to the proposed site. For most sites, comprehensive field surveys have not been conducted. We cannot provide a definitive statement on the presence of all rare or state-listed bat species. To avoid potential take, DEC *recommends* that any tree clearing be conducted between November 1 and March 31, when bats are inactive in hibernation sites. DEC also recommends that all snag and cavity trees remain uncut, unless their removal is necessary for protection of human life and property. For more information, please refer to the DEC Northern long-eared bat protective measures guidance, available at: http://www.dec.ny.gov/animals/106090.html.

This document is only intended to address state-listed bat species. Other rare or state-listed species, natural communities or other significant habitats may exist within the project area and would require additional review. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological resources.

OTHER

USFWS Long Island Field Office

If a federal agency is involved in the project, or if federal funding is used, there are additional considerations for federally listed species. Section 7(a)(1) of the Endangered Species Act requires federal agencies to use their authorities to conserve listed species. Section 7(a)(2) requires federal agencies to consult on any action that may affect a listed species.

Other permits from this Department or other agencies may be required for projects conducted on this property now or in the future. Also, regulations applicable to the location subject to this determination occasionally are revised and you should, therefore, verify the need for permits if your project is delayed or postponed. This determination regarding the need for permits will remain effective for a maximum of one year unless you are otherwise notified. Applications may be downloaded from our website at www.dec.ny.gov under “Programs” then “Division of Environmental Permits.”

Please contact this office if you have questions regarding the above information. Thank you.

Sincerely,

Amanda Bailey

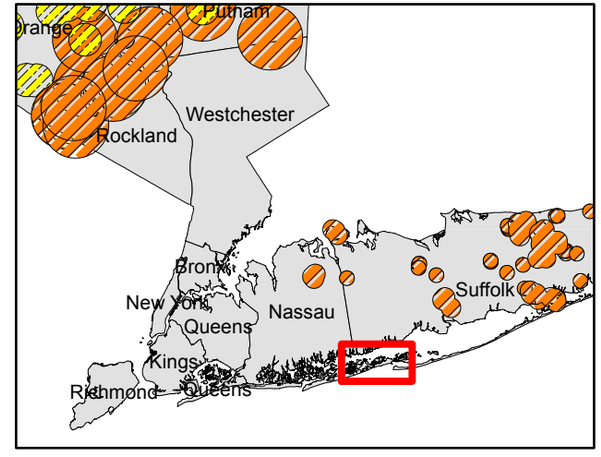
Amanda Bailey
Division of Fish and Wildlife
Amanda.bailey@dec.ny.gov
518-402-8859

Cc: Lori Shirley, Governor’s Office of Storm Recovery
May O’Malley, NYSDEC Division of Environmental Permits

NYS Resources Map

Shoreline Stabilization & Road Improvements Oak Beach, Suffolk County

Prepared by AMB on 8/2/2018



Project Area

Indiana Bat

Northern Long-eared Bat

Disclaimer: this map was prepared by the NYSDEC using the most current data available. It is deemed accurate but is not guaranteed. NYSDEC is not responsible for any inaccuracies in the data and does not necessarily endorse any interpretations or products derived from the data. This map may contain information that is considered sensitive and therefore the distribution of this map is strictly prohibited.

NEW YORK STATE OF OPPORTUNITY

Department of Environmental Conservation

0 0.5 1 2 3 4 Miles

1 inch = 9,450 feet

United States Department of the Interior

FISH AND WILDLIFE SERVICE
3817 Luker Road
Cortland, New York 13045

October 16, 2018

Ms. Alicia Shultz
Senior Environmental Scientist
New York State Homes and Community Renewal
Governor's Office of Storm Recovery
38-40 State Street
408 North Hampton Plaza
Albany, NY 12207

Dear Ms. Schultz:

The U.S. Fish and Wildlife Service (Service) is in receipt of your letter dated October 15, 2018, requesting consultation pursuant to the Endangered Species Act of 1973, as amended (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) for the New York State Homes and Community/ Governor's Office of Storm Recovery (GOSR) Renewal project entitled, "Shoreline Stabilization and Road Improvements – Oak Beach, Oak Beach Road, Oak Beach, Town of Babylon, Suffolk County, New York." The GOSR determined that the proposed project would have no effect for northern long-eared bat (*Myotis septontrionalis*; threatened), roseate tern (*Sterna dougallii dougallii*; endangered), seabeach amaranth (*Amaranthus pumilus*; threatened), sandplain gerardia (*Agalinis acuta*; endangered), and not likely to adversely affect for piping plover (*Charadrius melodus*; threatened) and red knot (*Calidris canutus rufa*; threatened).

Proposed Project

The proposed project involves shoreline protection along Oak Beach Road in Babylon, New York. As noted in your letter, "Oak Beach Road asphalt will be reconstructed to raise the elevation of the road along approximately 505 feet of Oak Beach Road with clearing and grading along the northern side of the road and from the road's northern curb 20 feet to the north. Within this 20-foot-wide strip of cleared land, a bioswale will be constructed. On the south side of the road at two sections of the road, an eastern and western section, a planted berm with soil be constructed for stabilization and connected to a stone revetment (geotextile fabric and armor stone) which will be anchored into a vegetated low sill bulkhead up to the mean high-water line. The two sections are approximately 40 feet in length."

Protective measures for piping plover and red knot include a time-of-year restriction of April 1 to September 1 for piping plover, and a 300-meter buffer zone between project activities and red knot from September 1 to November 30.

Service Comments

The Service acknowledges the GOSR's no effect determination for the northern long-eared bat, seabeach amaranth, and sandplain gerardia, due to their absence in the project area. As a result, no further consultation is warranted. The Service concurs with the NYSCH's determination that the proposed project would not be likely to adversely affect the piping plover and red knot due to the protection measures identified above.

If you have any questions or require further assistance, please have your staff contact Steve Papa of the Long Island Field Office at (631) 286-0485, extension 2120.

Sincerely,

David A. Stilwell
Field Supervisor

Governor's Office of Storm Recovery

ANDREW M. CUOMO
Governor

July 10, 2018

Mr. Steve Papa
U.S. Fish and Wildlife Service
Long Island Field office
340 Smith Rd
Shirley, NY 11967

RE: ESA/MBTA/BGEPA consultation for the Shoreline Stabilization and Road Improvements – Oak Beach, Oak Beach Road, Oak Beach, Town of Babylon, Suffolk County, New York

Dear Mr. Papa:

The Governor's Office of Storm Recovery (GOSR), acting under the auspices of New York State Homes and Community Renewal's (HCR) Housing Trust Fund Corporation (HTFC), on behalf of the Department of Housing & Urban Development (HUD), is preparing an environmental review in accordance with the National Environmental Policy Act (NEPA) process for the Shoreline Stabilization and Road Improvements – Oak Beach Project. GOSR proposes to use HUD Community Development Block Grant Disaster Recovery (CDBG-DR) program funding to complete this project.

GOSR is initiating informal consultation with your office concerning the proposed change in the action in accordance with the following laws: Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.), Migratory Bird Treaty Act of 1918 (MBTA) (40 Stat. 755, as amended; 16 U.S.C. 703-712) and the Bald and Golden Eagle Protection Act of 1940 (BGEPA) (54 Stat. 240, as amended; 16 U.S.C. 668-668c).

The project location provides habitat for several Federally threatened and endangered species. GOSR requests that USFWS review available USFWS data regarding the presence or absence of these species within the project area. The project activities are described below, followed by a summary of Federal threatened and endangered species and associated habitat and life cycle. The Town of Babylon completes period surveys for the presence of Federally listed species within the area of Oak Beach Road. The surveys have not identified the presence of Federally listed species within the project area.

PROPOSED ACTION – PROJECT ACTIVITIES

The Town of Babylon is proposing to strengthen the shoreline stabilization structures at the most critical points along Oak Beach's shoreline and raise Oak Beach Road, Oak Beach, Town of Babylon, Suffolk County, New York. The center of the project area is located at 40° 38' 22.35" west latitude and 73° 18' 19.65" north longitude.

The improvements to Oak Beach Road and associated shoreline are shown in the attached design plans (Attachment 1). Oak Beach Road asphalt will be reconstructed to raise the elevation of the road along approximately 505 feet of Oak Beach Road with clearing and grading along the northern side of the road and from the road's northern curb 20 feet to the north. Within this 20-foot-wide strip of cleared land, a bioswale will

be constructed. On the south side of the road at two sections of the road, an eastern and western section, a planted berm with soil be constructed for stabilization and connected to a stone revetment (geotextile fabric and armor stone) which will be anchored into a vegetated low sill bulkhead up to the mean high-water line. The two sections are approximately 40 feet in length.

The purpose of this project is to reduce shoreline erosion and flood risk to residences and related infrastructure along Oak Beach Road in the community. The project will reduce storm damage from storm surge for residences and the infrastructure on which they rely, including Oak Beach Road, water systems, and public facilities.

Oak Beach Road is a single-entry road which becomes impassable during flood events due to its proximity to the inadequately protected shoreline. During Superstorm Sandy, part of the western edge of the road collapsed due to the destabilization of the shoreline and subsurface material. Jetties need to be reinforced and upgraded to prevent future inundation of the road. Oak Beach is the only evacuation route for some residents.

ENDANGERED AND THREATENED SPECIES PRESENT

The USFWS Information, Planning and Conservation (IPaC) online planning tool Official Species List was generated for the Proposed Action (attached) notes "[t]here are no critical habitat within this project area" and lists the following federally-listed species as having the potential to occur within the vicinity of the Proposed Action:

- Piping plover (*Charadrius melodus*) - threatened,
- Roseate tern (*Sterna dougalli*) - endangered,
- Rufa red knot (Calidris canutus rufa)– threatened,
- Northern long-eared bat (*Myotis septentrionalis*) - threatened,
- Sandplain gerardia (*Agalinis acuta*) - endangered, and
- Seabeach amaranth (*Amaranthus pumilus*) - threatened.

Critical habitat for the Piping plover has been designated, the project area is outside the critical habitat. No critical habitat has been designated for the remaining species.

TOWN OF BABYLON FEDERALLY LISTED SPECIES SURVEY

According to the Town of Babylon, Babylon is one of the few Towns on Long Island that conducts annual field surveys for nesting birds and plant species on the USFWS list of threatened and endangered species. The project area has never supported any of the avian species listed for nesting or foraging habitat, as discussed in the annual Long Island Colonial Waterbird and Piping Plover survey completed on June 30, 2018. The project area is part of the "Oak Beach Segment." The Town of Babylon will complete a seabeach amaranth/seabeach knotweed survey the week of August 13, 2018. No plants were identified during the town's early-season survey. The Town of Babylon has no history of any species listed by the State Office of Natural Heritage for the project area.

EFFECT DETERMINATION

The project activities include construction within areas that may provide habitat for the Federally listed species identified above and described below. Surveys completed for the project area have not identified the presence of these species. The project area is not designated as critical habitat for any of the listed species. At project completion, the project area will continue to provide habitat for the Federally listed species. However, during construction, the noise and human activity are anticipated to disturb the bird species. Therefore, GOSR has made the determination that the project is not likely to jeopardize the continued existence of any

endangered or threatened species or result in the destruction or adverse modification of habitat. The action is not likely to adversely affect piping plover (*Charadrius melodus*) and rufa red knot (*Calidris canutus rufa*) and no effect for roseate tern (Sterna dougalli), sandplain gerardia (*Agalinis acuta*) and seabeach amaranth (*Amaranthus pumilus*). If any of the plant species are identified within the project area during the August survey, a biological assessment will be completed and GOSR will conduct a formal consultation with USFWS. Because no known NLEB maternity roost trees or hibernacula areas occur within the vicinity of the project location, GOSR has made a no effect determination for the NLEB. See below for additional discussion of the NLEB and documentation related to effect determination.

SPECIES HABITAT

Piping plover

The breeding range of the piping plover within New York State is limited to the coastlines of Long Island, where plovers nest from Queens to eastern Suffolk County (Wasilco 2008). Most piping plover colonies on Long Island have grown steadily in recent decades in response to protection and management and currently represent approximately one quarter of the total Atlantic Coast population (Hecht and Melvin 2009). Piping plovers nest in several areas of oceanfront beach along the southern shoreline and eastern and western points of Jones Beach Island (e.g., McIntyre and Heath 2011), including Gilgo State Park (NYSOPRHP 2015). Piping plovers nest on the oceanfront beaches of Long Island's barrier islands, and not on the bayside or mainland beaches. Their home range commonly includes bayside flats and back-barrier storm overwash areas, which are important foraging habitats for adults and fledglings (Elias et al. 2000, McIntyre and Heath 2011). Piping plovers breed on sandy upper beaches, especially where scattered grass tufts are present, and sparsely vegetated shores and islands of shallow lakes, ponds, rivers, and impoundments. Nests may also be built on sandy open flats among shells or cobble behind foredunes. Along the Atlantic Coast, piping plover breed mainly on gently sloping foredunes and blow-out areas behind primary dunes of sandy coastal beaches, and on suitable dredge oil deposits (U.S. Fish and Wildlife Service 1988).

The breeding season in the northern parts of the range begins when the adults reach the breeding grounds between mid -April to mid-May (Hull 1981). Piping plovers often return to the same nesting area in consecutive years (but few return to natal sites (Wilcox 1959)). Nest sites are simple depressions or scrapes in the sand (Bent 1929, Wilcox 1959). The average nest is about 6 to 8 cm in diameter, and is often lined with pebbles, shells, or drift wood to enhance the camouflage effect. Males make the scrapes and may construct additional (unused) nests in their territories, which may be used to deceive predators or may simply reflect over-zealousness (Wilcox 1959, Hull 1981). Occupied nests are generally 50 to 100 meters apart (Wilcox 1959, Cairns 1977, Niemi and Davis 1979, Cuthbert and Wiens 1982). Egg-laying commences soon after mating. Eggs are laid every second day. The young hatch about 27 to 31 days after egg laying, and incubation is shared by both adults (Wilcox 1959, Hull 1981).

Young leave the nest about two hours after hatching and are capable of running and swimming. The young remain within about 200 meters of the nest, although they do not return after hatching (Wilcox 1959, Hull 1981, Johnsgard 1979). First (unsustained) flight has been observed at around 18 days, with chicks molting into first juvenile plumage by day 22 (Zickefoose, pers. comm.). Nest success depends heavily upon camouflage (Hull 1981). Hatching success ranges widely: 91 percent for undisturbed beaches on Long Island (Wilcox 1959), 76 percent for undisturbed beaches in Nova Scotia (Cairns 1977), 44 percent on relatively undisturbed beaches at Lake of the Woods (Cuthbert and Wiens 1982), and 30 percent maximum at disturbed Michigan beaches (Lambert and Ratcliff 1979).

Piping plovers begin fall migration in mid- to late summer. The juveniles may remain later but are generally gone by **mid- to late August** (Cuthbert and Wiens 1982).

Piping plovers forage on worms, fly larvae, beetles, crustaceans, mollusks, and other invertebrates (Bent 1928). The chicks learn to feed themselves and eat smaller versions of adult food items (Hull 1981). Open shoreline areas such as ocean beaches, intertidal flats, and tidal pool edges are preferred foraging areas, and vegetated beaches are avoided (Cuthbert and Wiens 1982). Piping plovers obtain food from the surface of substrate, or occasionally probe into sand or mud.

Roseate Tern

According to the New York Natural Heritage Program (NYNHP), there are only two sizeable colonies of roseate terns in New York. This species occurs almost exclusively on islands, where predation pressure is lower. Roseate tern breeding locations in New York are confined to between 5 to 10 locations on Long Island annually (McGowan and Corwin 2008). The great majority of the State's birds nest on Great Gull Island, located east of Plum Island off the northeastern tip of Long Island. Cartwright Island supported substantial numbers of roseate terns in 2001-2004. The eastern tip of Long Island is an important staging area where birds collect for several weeks before migrating en masse to South America (USFWS, 1998). Roseate terns are threatened by the loss of breeding habitat to coastal development, rising sea-levels, human disturbance, predation, and increased flooding from storms due to climate change. Roseate terns are listed as endangered in the State by the New York Department of Environmental Conservation (NYDEC) and the northeastern U.S. population is federally-listed as endangered. There are an estimated 1,000 miles of maritime beach on Long Island covering about 10,000 to 16,000 acres; there may be more than 30 to 50 extant occurrences statewide. The several documented occurrences of this community have good viability and are protected on public or private conservation land. The community is restricted to the ocean shoreline of the Coastal Lowlands ecozone in Suffolk, Richmond, Queens, Kings, and Nassau Counties. Although the number of maritime beaches may have increased slightly when formerly long, continuous examples were fragmented by development, the overall trend for the community is declining as a result of coastal development and recreational overuse.

Rufa red knot

The rufa subspecies of the red knot, which has recently been listed as federally threatened, migrates up to 30,000 miles round trip between primary wintering grounds at the tip of South America in Tierra del Fuego, in northern Brazil, throughout the Caribbean and along US coasts from Texas to North Carolina. The rufa red knot breeds in the tundra of the Central Canadian Arctic from northern Hudson Bay to the southern Queen Elizabeth Islands. Rufa red knots require stopover habitats rich in easily digested foods with thin or no shells (like juvenile clams, mussels and horseshoe crab eggs) in order to gain enough weight to fuel the next flight. Delaware Bay is the most significant spring migration staging area for rufa red knots, which time their arrival in the bay to coincide with the peak horseshoe crab spawning period (Baker et al. 2004, Niles et al. 2009). Monomoy National Wildlife Refuge in Cape Cod, Massachusetts appears to be among the most significant staging areas for red knots during their southbound autumn migration (Harrington et al. 2010, Burger et al. 2012). In addition to these primary staging areas in Delaware Bay and Cape Cod, migrating rufa red knots may stage in much lower densities elsewhere along the Atlantic coast (Harrington 2010, Burger et al. 2012). Although migrating rufa red knots occur along Long Island (e.g., Tanacredi and Badger 1995:104, Fowle and Kerlinger 2001:81, Boretti et al. 2007), none of its beaches, bays, or estuaries are known to be high-use staging areas that support large concentrations of individuals. Instead, red knots are usually seen on Long Island in small groups (e.g., Wells 1996:59) relative to the tens of thousands of birds observed staging together in Delaware Bay and Cape Cod. Additionally, rufa red knots are highly sensitive to human disturbance at staging sites (Burger et al. 2004, 2007), and as such, would not be expected to occur near the project site(s).

Sandplain gerardia and seabeach amaranth

Sandplain gerardia is an herbaceous annual plant that occurs in sandy coastal plain habitat in poor, dry soils. This plant appears to depend upon disturbance (including fire) to persist. It is a member of sandplain grassland communities and openings in coniferous forest (Neel 2002). It was once a common species when these communities were large and dominant on some areas of Long Island (Taylor 1923).

According to the New York Natural Heritage Program, there are four known occurrences of sandplain gerardia on Long Island, but all of the sites are fairly small and isolated natural areas which require constant management. In good reproduction years, a few of the sites have tens of thousands of plants. There are nine historical occurrences that are now considered extirpated. There are two additional small occurrences that were known to exist until 2000 and 2004 but have since been extirpated. There are five more sites on Long Island where plants have been introduced, one with hundreds of plants, but they are not used for ranking the species.

Montauk, Long Island, and New York once harbored "untold millions" of sandplain gerardia plants (Taylor 1923). Sandplain gerardia was thought to be extirpated from New York, but was rediscovered on Long Island and now is known from 12-13 EO's due to a combination of discoveries and restoration efforts.

Seabeach amaranth is an herbaceous annual plant that occurs on barrier island beaches, where its primary habitat consists of overwash flats at accreting ends of islands and lower foredunes and upper strands of non-eroding beaches. It occasionally establishes small temporary populations in other habitats, including sound-side beaches, blowouts in foredunes, and sand and shell material placed as beach replenishment or dredge spoil. Seabeach amaranth appears to be intolerant of competition and does not occur on well-vegetated sites. The species appears to need extensive areas of barrier island beaches and inlets, functioning in a relatively natural and dynamic manner. These characteristics allow it to move around in the landscape as a fugitive species, occupying suitable habitat as it becomes available (USFWS 2011). It is only known from Long Island, ranging from Coney Island to near the east end of the South Fork along the southern shore.

Northern long-eared bat

There are currently no known maternity roost trees or hibernacula known to be occupied by NLEB within the vicinity of the Proposed Action, according to geospatial information provided by the USFWS.

The northern long-eared bat (NLEB), listed as federally threatened, is a temperate, insectivorous bat whose life cycle can be coarsely divided into two primary phases - reproduction and hibernation. NLEB hibernate in caves or mines during winter and then emerge in early spring, with males dispersing and remaining solitary until mating season at the end of the summer, and pregnant females forming maternity colonies in which to rear young. No caves or mines occur near the project site. Summer habitat of the NLEB generally includes upland and riparian forest within heavily forested landscapes (Ford et al. 2005, Henderson et al. 2008). The NLEB is sensitive to fragmentation and urbanization, and requires interior forest for both foraging and breeding (Foster and Kurta 1999, Broders et al. 2006, Henderson et al. 2008). Roost trees are usually in intact forest, close to the core and away from large clearings, roads, or other sharp edges (Menzel et al. 2002, Owen et al. 2003, Carter and Feldhammer 2005).

There are currently no known maternity roost trees or hibernacula known to be occupied by NLEB within the vicinity of the project location according to geospatial information provided by the USFWS. Minor tree and vegetation removal may potentially occur during the project activities. Since there are no records of the NLEB in the vicinity of the project area, individual NLEBs are not expected to occur in the project area. **Therefore, the project activities area considered to have "No Effect" on the NLEB or the habitats on which it depends**.

Compliance

For purposes of consultation under Section 7(a)(2) of the ESA, we conclude that the Proposed Action is not likely adversely effect on the piping plover and rufa red knot and no effect on NLEB, roseate tern, sandplain gerardia, and seabeach amaranth or the habitats on which these species depend. **We request your concurrence with this determination.**

Species	Listing Status	Effect Determination	Critical Habitat Determination
Piping plover (*Charadrius melodus*)	Threatened	Not Likely to Adversely Effect	NA
Roseate tern (*Sterna gougallii*)	Endangered	No Effect	NA
Rufa red knot (*Calidris canutus rufa*)	Threatened	Not Likely to Adversely Effect	NA
Northern long-eared bat (*Myotis septentrionalis*)	Threatened	No Effect	NA
Sandplain gerardia (*Agalinisacuta*)	Endangered	No Effect*	NA
Seabeach amaranth (*Amaranthus pumilus)*	Threatened	No Effect*	NA

- Field survey to confirm absence of species in August 2018. If identified, GOSR will prepare a formal USFWS consultation.

Migratory Bird Treaty Act

The project activities take place within the Atlantic Flyway. However, the activities are limited to the replacement of an existing infrastructure and provides little habitat for migratory birds. Migratory birds are expected to leave the project area during construction. GOSR has determined that the project activities will have no significant adverse impact on migratory birds or their habitat. Therefore, it is anticipated that migrating birds would not be impacted by the Proposed Action.

Bald and Golden Eagle Protection Act

Bald Eagle (*Haliaeetus leucocephalus*) habitat and breeding sites can be found throughout Suffolk County. There are no known breeding bald eagles within the vicinity of the project area; therefore, no adverse impacts to breeding bald eagles are expected as a result of the project. GOSR has determined that the proposed action would have no impact on the Bald Eagle.

If you have questions or require additional information regarding this request, please contact me at (518) 474-0647 or Alicia.Shultz@nyshcr.org. Thank you for your time and consideration.

Sincerely,

Alicia Shultz
Senior Environmental Scientist
New York State Homes & Community Renewal
Governor's Office of Storm Recovery

Enclosures:
Attachment 1 – Project Maps and Design Plan
Attachment 2 – IPaC Trust Resource Report

Literature Cited

Broders, H.G., G.J. Forbes, S. Woodley, and I.D. Thompson. 2006. Range extent and stand selection for forest-dwelling northern long-eared and little brown bats in New Brunswick. Journal of Wildlife Management 70: 1174-1184.

Carter, T.C., and G.A. Feldhamer. 2005. Roost tree use by maternity colonies of Indiana bats and northern long-eared bats in southern Illinois. Forest Ecology and Management 219:259-268.

Ford, W.M., M.A. Menzel, J.L. Rodrigue, J.M. Menzel, and J.B. Johnson. 2005. Relating bat species presence to simple habitat measures in a central Appalachian forest. Biological Conservation 126: 528-539.

Foster, R.W. and A. Kurta, A. 1999. Roosting ecology of the northern bat (Myotis septentrionalis) and comparisons with the endangered Indiana bat (Myotis sodalis). Journal of Mammalogy 80: 659-672.

Henderson, L.E., L.J. Farrow, and H.G. Broders. 2008. Intra-specific effects of forest loss on the distribution of the forest-dependent northern long-eared bat (Myotis septentrionalis). Biological Conservation 141:1819-1828.

Menzel, M.A., S.F. Owen, W.M. Ford, J.W. Edwards, P.B. Wood, B.R. Chapman, and K.V. Miller. 2002. Roost tree selection by northern long-eared bat (Myotis septentrionalis) maternity colonies in an industrial forest of the central Appalachian mountains. Forest Ecology and Management 155:107-114.

Owen, S.F., M.A. Menzel, W.M. Ford, B.R. Chapman, K.V. Miller, J.W. Edwards, and P.B. Wood. 2003. Home-range size and habitat used by the northern myotis (Myotis septentrionalis). American Midland Naturalist 150:352-359.

Attachment 1 – Project Maps

West Gilgo to Captree NY Rising Community Reconstruction Plan
Figure 1: NYRCR Planning Area Location

West Islip
Village of Lindenhurst
Village of Babylon/West Babylon
Village of Amityville/Copiague
110
27
27A
Merrick Rd
Robert Moses Cswy
Oyster Bay (Nassau County)
Babylon (Suffolk County)
Oak Island
Oak Beach
Captree Island
Oak Island Beach Association
Ocean Pkwy
Gilgo
West Gilgo
Robert Moses State Pkwy
Babylon
Islip

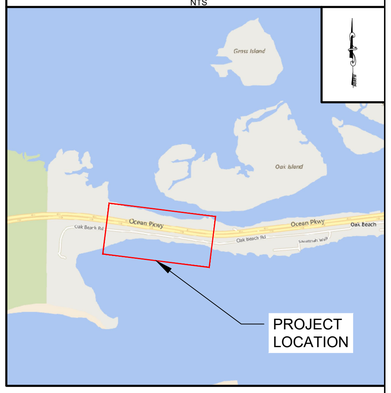
West Gilgo to Captree NYRCR Planning Area
Other NYRCR Planning Areas
Municipal Boundary
Interstate
Highways
Streets
Long Island Railroad & Station
Ferry

0 1.5 3 Miles

Source: NYS DOT, NYS DOS, MTA

TOWN OF BABYLON
DEPARTMENT OF PUBLIC WORKS

KEY MAP
NTS



PLANS FOR

OAK BEACH COMMUNITY SHORELINE STABILIZATION AND ROADWAY IMPROVEMENTS

SUFFOLK COUNTY, NEW YORK

30% DESIGN PLANS

CONTRACT NO. XXXX

JUNE 2018

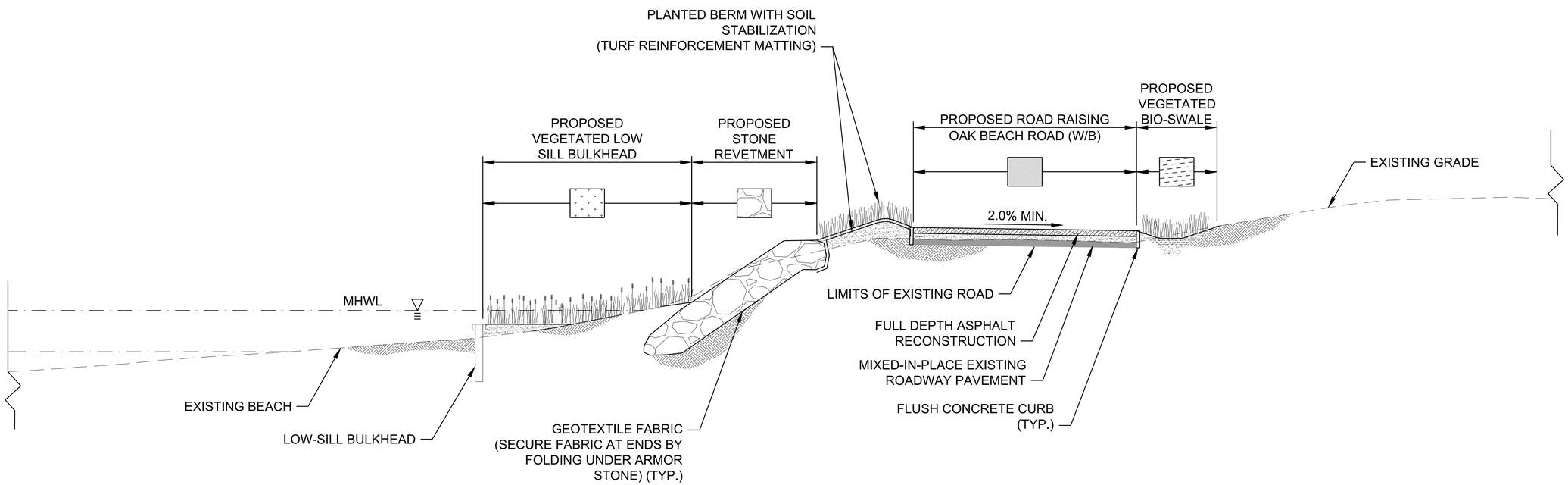
CONSULTANT

NELSON & POPE
ENGINEERS • SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747-2188
(631) 427-5665 FAX (631) 427-5620
WWW.NELSONPOPE.COM

No.	DATE	REVISION	BY:
-	-	-	-/-

DWN. BY:	TK
CHK'D BY:	RS
DATE:	JUNE 2018
JOB No.:	18110
CADD:	COV
SCALE:	NONE
DRAWING NUMBER:	C-1
SHEET:	1 OF 6

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, PROFESSIONAL ENGINEERING AND LAND SURVEYING, SECTION 7209 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



TYPICAL SECTION A

NOT TO SCALE

30% DESIGN PLANS

No.	DATE	REVISION	BY:
-	-	-	-/-

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NELSON & POPE
ENGINEERS • SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747-2188
(631) 427-5665 FAX (631) 427-5620
WWW.NELSONPOPE.COM

CLIENT:
TOWN OF BABYLON
200 EAST SUNRISE HIGHWAY
LINDENHURST
NEW YORK 11757

DWN. BY:	TK
CHK'D BY:	RS
DATE:	JUNE 2018
JOB No.:	18110
CADD:	COV.DWG
SCALE:	AS SHOWN

DRAWING TITLE:
TYPICAL SECTION -1
OAK BEACH COMMUNITY SHORELINE STABILIZATION AND ROADWAY IMPROVEMENTS
BABYLON, NEW YORK

DRAWING NUMBER:
TYP - 1

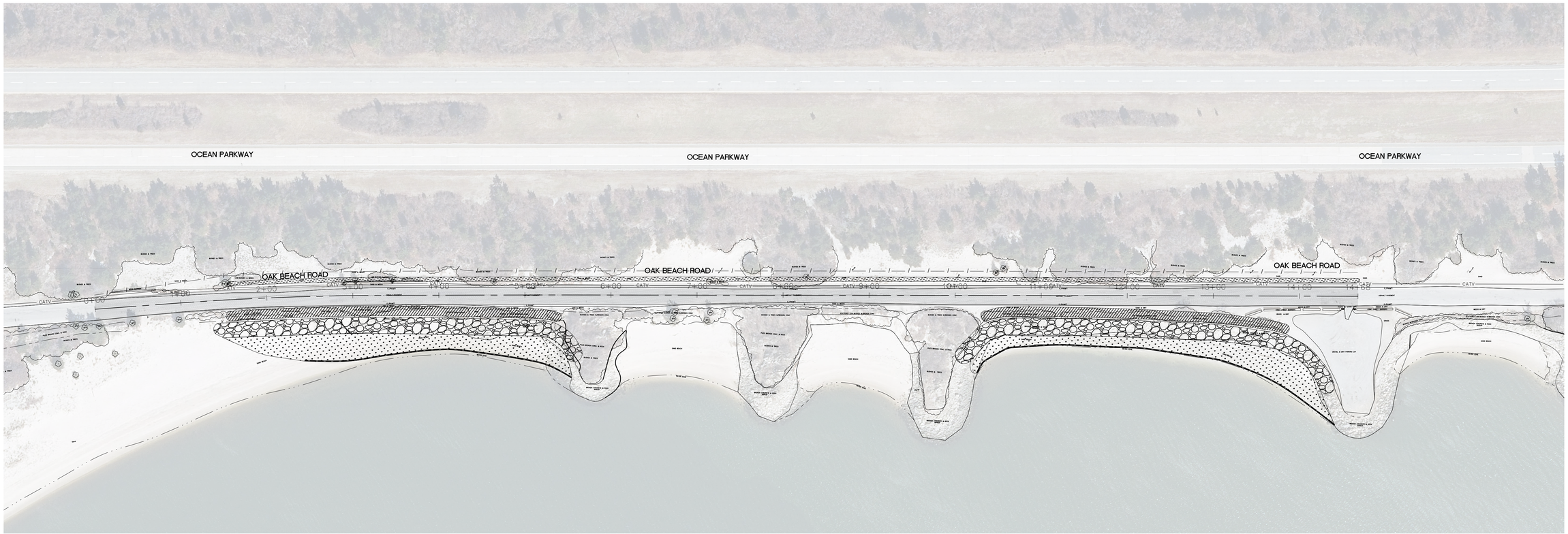
SHEET: 2 OF 6

GRAPHIC SCALE

60 0 30 60 120

(IN FEET)
1 INCH =60 FEET

NORTH



LEGEND:

- VEGETATED LOW SILL BULKHEAD AREA
- STONE REVETMENT
- PLANTED/ STABILIZED BERM
- BIO SWALE AREA
- FULL DEPTH ASPHALT RECONSTRUCTION
- LOW SILL BULKHEAD
- FLUSH CONCRETE CURB

30% DESIGN PLANS

No.	DATE	REVISION	BY:
-	-	-	-

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CLIENT:

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LINDERHURST, NEW YORK 11757

DWN. BY:	TK
CHK'D BY:	RS
DATE:	5/31/18
JOB No.:	18111
CADD:	18110_CP.DWG
SCALE:	AS SHOWN

DRAWING TITLE:

OVERALL PLAN - 1

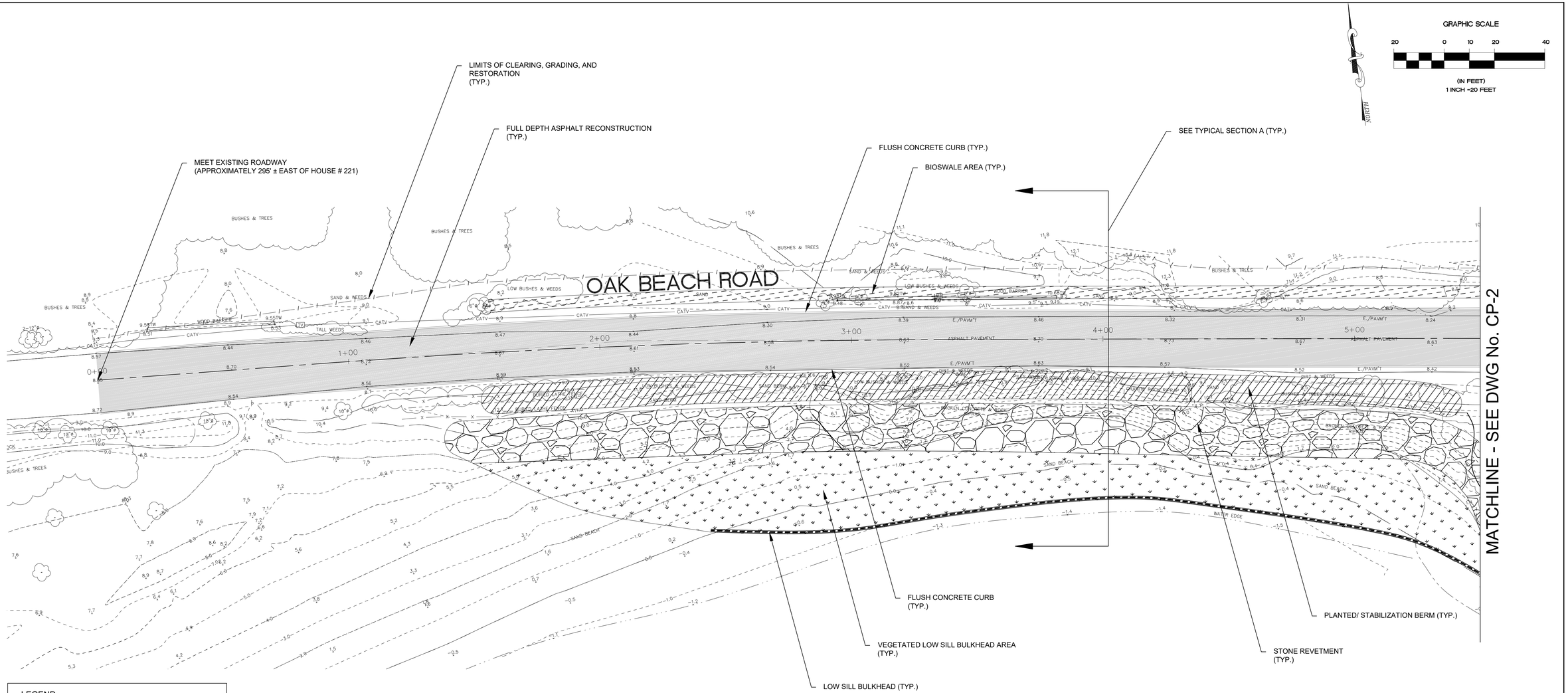
OAK BEACH ROAD, OAK BEACH COMMUNITY

BABYLON, NEW YORK

DRAWING NUMBER:

OVR-1

SHEET: 3 OF 6



LEGEND:

- VEGETATED LOW SILL BULKHEAD AREA
- STONE REVETMENT
- PLANTED/ STABILIZED BERM
- BIO SWALE AREA
- FULL DEPTH ASPHALT RECONSTRUCTION
- LOW SILL BULKHEAD
- FLUSH CONCRETE CURB

30% DESIGN PLANS

No.	DATE	REVISION	BY:
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CHK'D BY:	RS
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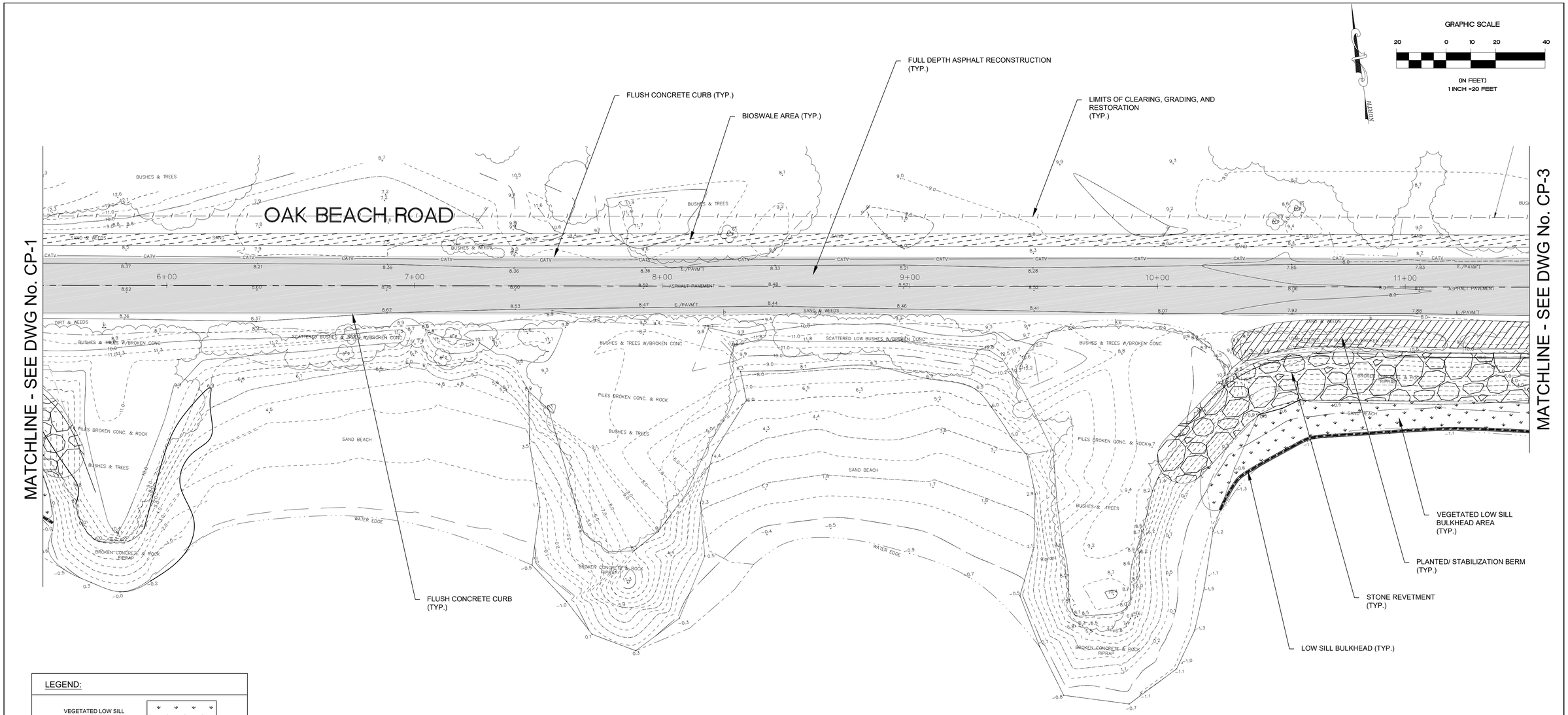
JOB No.:	18111
CADD:	18110_CP.DWG
SCALE:	AS SHOWN

DRAWING TITLE:
CONSTRUCTION PLAN - 1
OAK BEACH ROAD, OAK BEACH COMMUNITY
BABYLON, NEW YORK

DRAWING NUMBER:
CP-1

SHEET: 4 OF 6



LEGEND:

- VEGETATED LOW SILL BULKHEAD AREA
- STONE REVETMENT
- PLANTED/ STABILIZED BERM
- BIO SWALE AREA
- FULL DEPTH ASPHALT RECONSTRUCTION
- LOW SILL BULKHEAD
- FLUSH CONCRETE CURB

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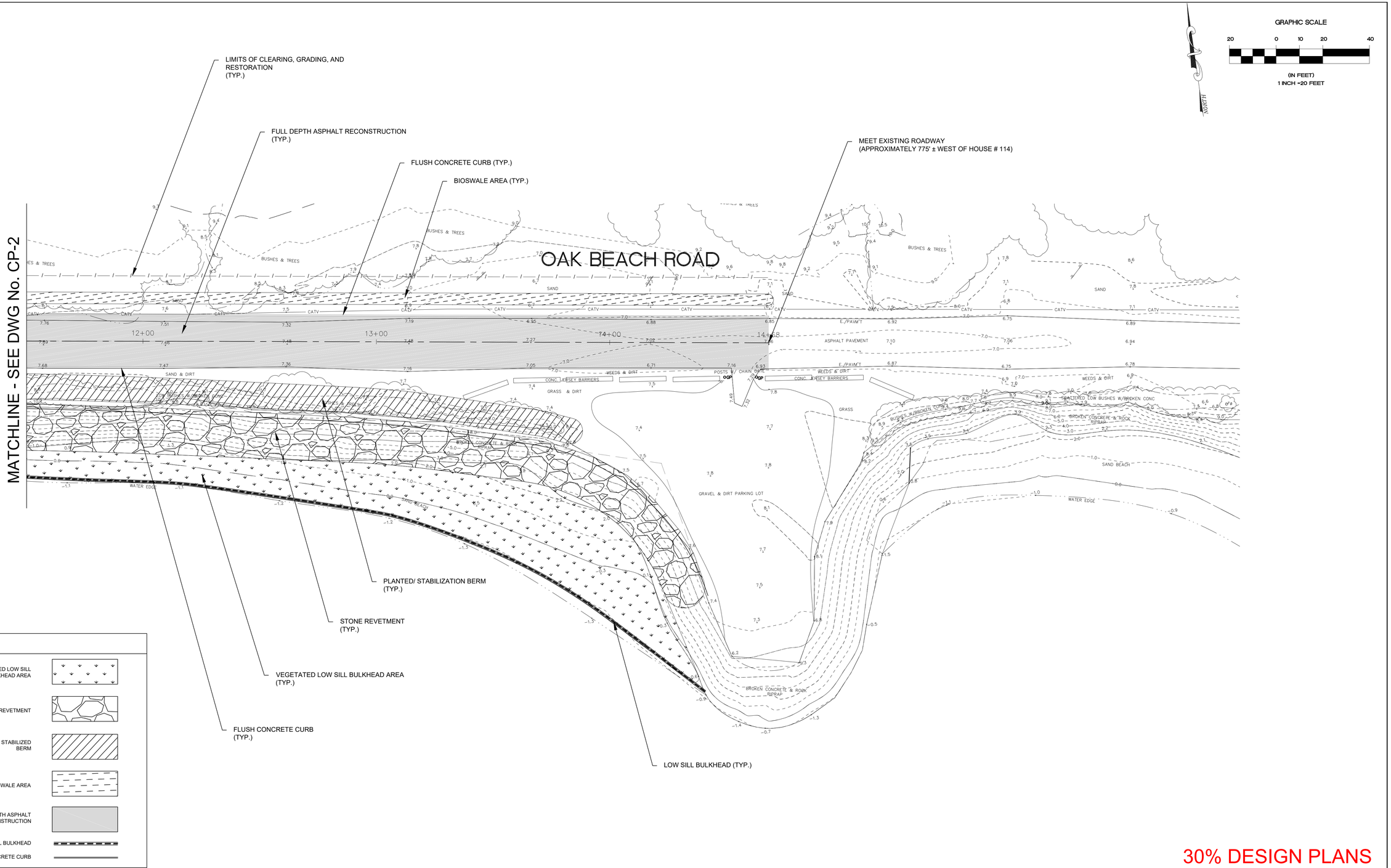
LINDERHURST, NEW YORK 11757

DWN. BY:	TK
CHK'D BY:	RS
DATE:	5/31/18
JOB No.:	18111
CADD:	18110_CP.DWG
SCALE:	AS SHOWN

DRAWING TITLE:
CONSTRUCTION PLAN - 2
OAK BEACH ROAD, OAK BEACH COMMUNITY
BABYLON, NEW YORK

DRAWING NUMBER:
CP-2

SHEET: 5 OF 6



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No.	DATE	REVISION	BY:
-	-	-	-

SEAL:

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DWN. BY:	TK
CHK'D BY:	RS
DATE:	5/31/18
JOB No.:	18111
CADD:	18110_CP.DWG
SCALE:	AS SHOWN

DRAWING TITLE:
CONSTRUCTION PLAN - 3
OAK BEACH ROAD, OAK BEACH COMMUNITY
BABYLON, NEW YORK

DRAWING NUMBER: CP-3

SHEET: 6 OF 6

Attachment 2 – IPaC Trust Resource Report

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Long Island Ecological Services Field Office
340 Smith Road
Shirley, NY 11967-2258
Phone: (631) 286-0485 Fax: (631) 286-4003

In Reply Refer To: August 01, 2018
Consultation Code: 05E1LI00-2018-SLI-0786
Event Code: 05E1LI00-2018-E-01680
Project Name: Shoreline Stabilization and Road Improvements – Oak Beach, Oak Beach, Suffolk County, New York

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Long Island Ecological Services Field Office
340 Smith Road
Shirley, NY 11967-2258
(631) 286-0485

Project Summary

Consultation Code: 05E1LI00-2018-SLI-0786

Event Code: 05E1LI00-2018-E-01680

Project Name: Shoreline Stabilization and Road Improvements – Oak Beach, Oak Beach, Suffolk County, New York

Project Type: ** OTHER **

Project Description: The project activities include improvements to Oak Beach Road and associated shoreline. Oak Beach Road asphalt will be reconstructed to raise the elevation of the road along approximately 505 feet of Oak Beach Road with clearing and grading from the roads northern curb 20 feet to the north. Within this 20-foot-wide strip of cleared land, a bioswale will be constructed. On the south side of the road at two sections of the road, an eastern and western section, a planted berm with soil be constructed for stabilization and connected to a stone revetment (geotextile fabric and armor stone) which will be anchored into a vegetated low sill bulkhead up to the mean high-water line. The two sections are approximately 40 feet in length.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/40.639056890816626N73.30445831230489W

Counties: Suffolk, NY

Endangered Species Act Species

There is a total of 6 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

---

1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Northern Long-eared Bat *Myotis septentrionalis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Birds

NAME	STATUS
Piping Plover *Charadrius melodus* Population: [Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered. There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/6039	Threatened
Red Knot *Calidris canutus rufa* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1864	Threatened
Roseate Tern *Sterna dougallii dougallii* Population: northeast U.S. nesting pop. No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/2083	Endangered

Flowering Plants

NAME	STATUS
Sandplain Gerardia *Agalinis acuta* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/8128	Endangered
Seabeach Amaranth *Amaranthus pumilus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/8549	Threatened

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

Governor's Office of
Storm Recovery

ANDREW M. CUOMO
Governor

July 11, 2018

Mr. Larry Moss
Historic Preservation Technical Specialist
New York State Office of Parks, Recreation and Historic Preservation
Division of Historic Preservation
Peebles Island
P.O. Box 189
Waterford, New York 12188-0189

Re: Section 106 Compliance for **Shoreline Stabilization and Road Improvements – Oak Beach, Oak Beach, Suffolk County, New York**

Dear Mr. Moss:

Pursuant to the Disaster Relief Appropriations Act, 2013 (Public Law 113-2) and the Housing and Community Development Act (42 U.S.C. § 5301 et seq.), the Governor's Office of Storm Recovery (GOSR), an office of New York State Homes and Community Renewal's Housing Trust Fund Corporation as a recipient of Community Development Block Grant – Disaster Recovery ("CDBG-DR") funds from the United States Department of Housing and Urban Development ("HUD"), is serving as the entity responsible for compliance with the HUD environmental review procedures set forth in 24 CFR Part 58. GOSR is acting on behalf of HUD in providing the enclosed Program information and request for consultation.

GOSR processes environmental reviews for projects funded with HUD CDBG-DR on a case-by-case basis. A consultation request for the project described herein will also be sent to Shinnecock Nation. In accordance with Section 101(d)(6)(B) of the National Historic Preservation Act (NHPA) of 1966, as amended (16 U.S.C. 470f), and its implementing regulations, 36 Code of Federal Regulations (CFR) Part 800, this letter serves as notification of the proposed action.

Area of Potential Effect: The area of potential effect is shown in the attached design plans (Attachment 1) which includes a 505-foot length of Oak Beach Road, 20 feet on north side of this length, and approximately 40 feet on south side of this length.

Project Description: The project activities include improvements to Oak Beach Road and associated shoreline. Oak Beach Road asphalt will be reconstructed to raise the elevation of the road along approximately 505 feet of Oak Beach Road with clearing and grading from the roads northern curb 20 feet to the north. Within this 20-foot-wide strip of cleared land, a bioswale will be constructed. On the south side of the road at two sections of the road, an eastern and western section, a planted berm with soil be constructed for stabilization and connected to a stone revetment (geotextile fabric and

armor stone) which will be anchored into a vegetated low sill bulkhead up to the mean high-water line. The two sections are approximately 40 feet in length.

The purpose of this project is to reduce shoreline erosion and flood risk to residences and related infrastructure along Oak Beach Road in the community. The project will reduce storm damage from storm surge for residences and the infrastructure on which they rely, including Oak Beach Road, water systems, and public facilities.

Oak Beach Road is a single-entry road which becomes impassable during flood events due to its proximity to the inadequately protected shoreline. During Superstorm Sandy, part of the western edge of the road collapsed due to the destabilization of the shoreline and subsurface material. Jetties need to be reinforced and upgraded to prevent future inundation of the road. Oak Beach is the only evacuation route for some residents.

The project area is not located in an historic area. The purpose of this letter is to initiate consultation pursuant to Section 106 of the NHPA per the implementing regulations at 36 Code of Federal Regulations (CFR) Part 800. GOSR respectfully requests your review of the proposed project described herein. If you have any questions or require additional information regarding this request, please feel free to contact me at (518) 474-0647 or via email at Alicia.Shultz@nyshcr.org. Thank you for your time and consideration.

Sincerely,

Alicia Shultz
Senior Environmental Scientist
New York State Homes & Community Renewal
Governor's Office of Storm Recovery
38-40 State St.,408N, Hampton Plaza, Albany, NY 12207
(518) 474-0647 | cell (917) 376-9003 Alicia.Shultz@nyshcr.org |

Enclosures uploaded to CRIS:
Photographs
Aerial Photograph
Design Plans
Site Location Maps